THE CFT
TILE BOOK

EDITION 2023.280

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CFT
CENTER FOR TESTMATERIALS

Introduction

This sample book shows examples and results achieved with the only available commercial set of Dishwash Monitors for Detergent Performance Testing.

In the late 90's CFT produced a lot of soiled dishes for her customers according to different standards, like the IKW-standard. This kind of production is used to be done in-house by the end-users or the test institutes. We started do develop our own range of materials because of the difficulty and expense to send the plates and cups across long distances. CFT felt that this production was very labour intensive and we wanted to serve all our customers and not only the ones close by. This led to the introduction of our Dishwash Testmaterials range.

Currently our range of different soils available has been widely expanded. The set of tiles that we offer is especially suitable to do reliable screenings. The CFT Dishwash Method is not a full replacement, but it can certainly help you save a lot of time, effort and money by running smaller scale IKW or other labour intensive test runs. Another advantage of the tiles is that they are lightweight, unbreakable and very reproducible.

This book contains the following parts: a description how to use this book, an index of our testmaterials, product sheets with a full description of our testmaterials for different testing purposes and an application legend.

Feel free to contact us if you have any remaining questions.

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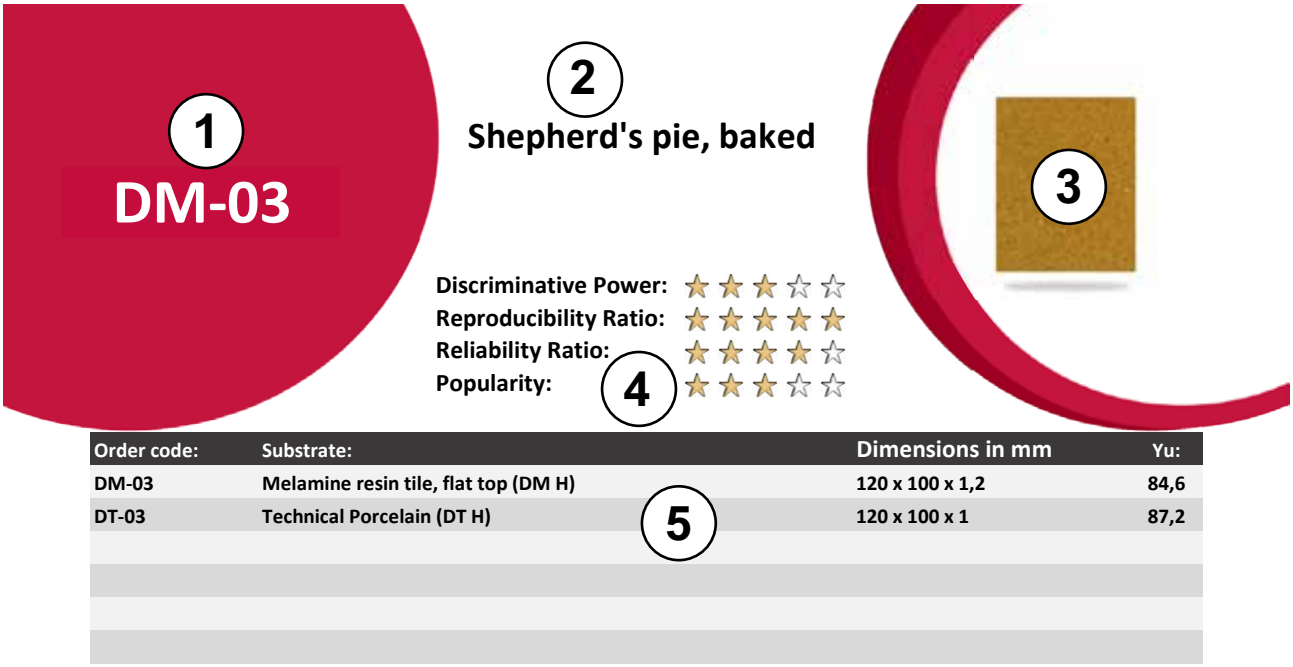
https://www.cftbv.nl

How to use this Tile Book

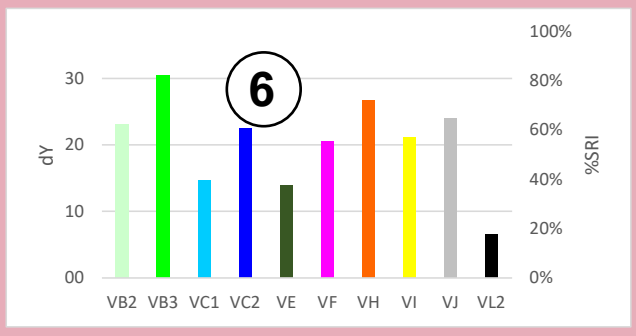
The picture below is an example of the left side of a product sheet of one of our Tiles.



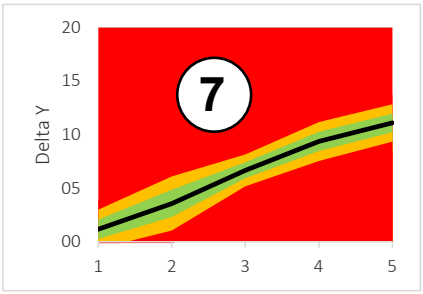
Order code:	Substrate:	Dimensions in mm	Yu:
DM-03	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-03	Technical Porcelain (DT H)	120 x 100 x 1	87,2

5

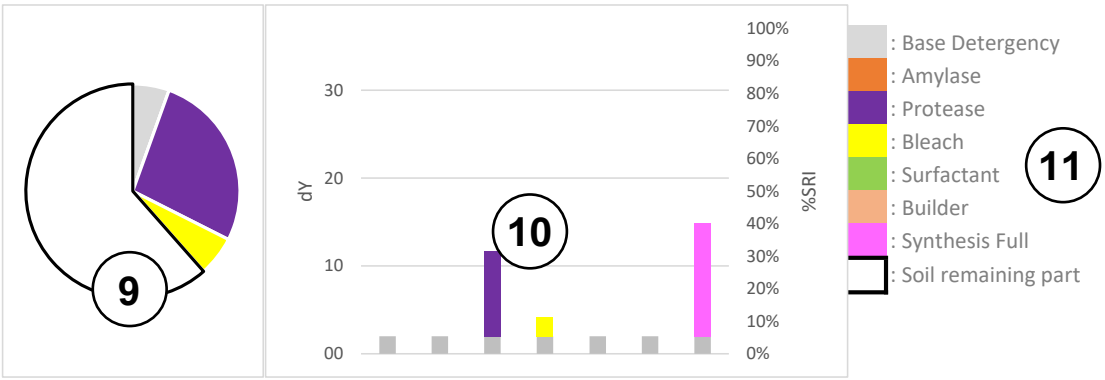
Autodish detergent comparison



Quality Control



Autodish detergent component response



This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

1. The CFT article code of the soiled tile on the main substrate.

2. Soil name.

3. Example of the standardized testmaterial.

4. **Discriminative Power Auto Dishwash**
   Discriminative Power Index (1-5 stars):

$$\frac{\sqrt{\sum_{i=1}^{n=1} \sum_{j=i+1}^{n} (1-T_{(\mu i=\mu j)}) * ABS(\mu_i=\mu_j)}}{c}$$

   CFT developed this way of quantifying the Discriminative Power of a Testmaterial several years ago. It is based on the sum of the significance (Student T-Test) of all different results (in ΔY) times the size of this difference. This is scaled to a 5 star ratio.

   Reproducibility Ratio
   The Reproducibility Ratio (1-5 stars) indicates the consistency of the soiled Y-values (Ys) within a batch, scaled on a ratio from 1 to 5 stars

   Reliability Ratio Auto Dishwash
   Reliability Ratio (1-5 stars):
   The Reliability Ratio indicates the consistency of the repetitions in ΔY over the average cleaning levels (Avg(Yw)). Indicates the consistency of results between repetitions, scaled on a ratio from 1 to 5 stars.

   Popularity
   Popularity of product based on sales records.

5. Table with the order codes of this stain on different substrates. Also shows the dimensions & Yu (Y-unsoiled) value of the different substrates.

6. Soil removal graph for every used commercial auto dishwash detergent.

7. Detergent dosage response & QC graph, including our thresholds for approval.

8. Results after washing the tiles with used commercial auto dishwash detergent.

9. Detergent component response circle diagram.

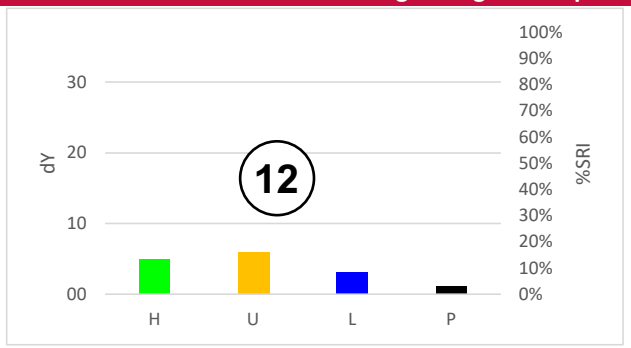
10. Detergent component response graph.

11. Legend of detergent component response table and circle diagram.

How to use this Tile Book

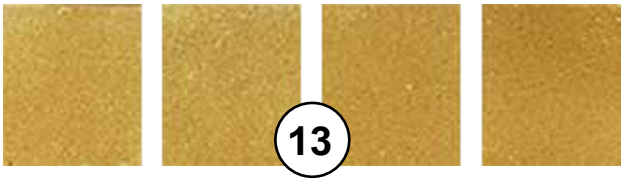
The picture below is an example of the right side of a product sheet of one of our Tiles.

Professional cleaning detergent comparison



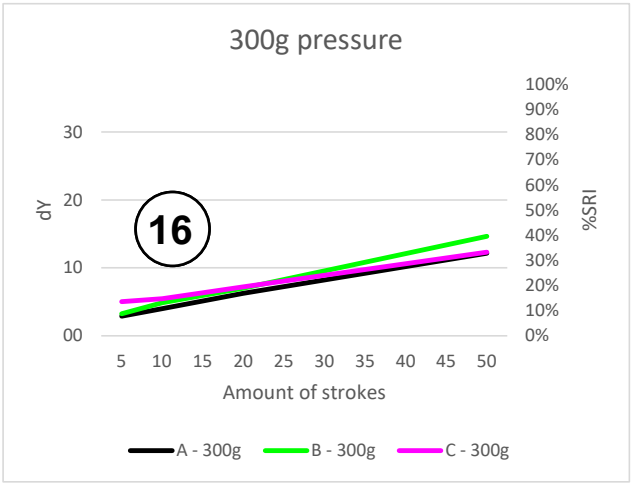
DM-03

14



Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison 15

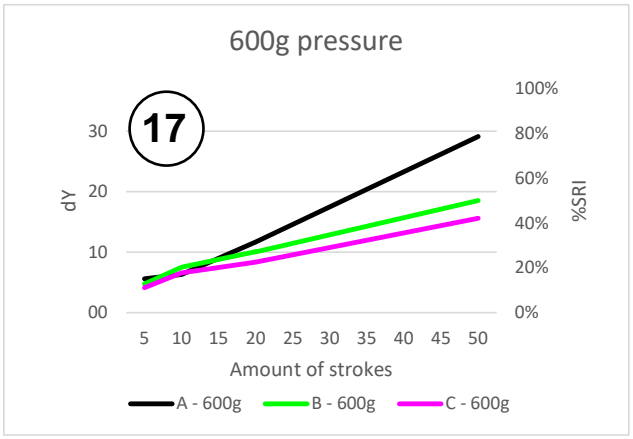


Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

18

Example soil removal pictures

19



Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

20

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12. Soil removal graph for each used professional dishwash detergent.

13. Results after washing tiles with four different professional dishwash detergents.

14. CFT article code.

15. **Discriminative Power Professional Dishwash Detergent**
    Discriminative Power Index (1-5 stars):

$$\frac{\sqrt{\sum_{i=1}^{n=1}\sum_{j=i+1}^{n}(1-T_{(\mu i=\mu j)})} * ABS(\mu_i=\mu_j)}{c}$$

    CFT developed this way of quantifying the Discriminative Power of a Testmaterial several years ago. It is based on the sum of the significance (Student T-Test) of all different results (in ΔY) times the size of this difference. This is scaled to a 5 star ratio.

    Reproducibility Ratio Professional Dishwash Detergent
    The Reproducibility Ratio (1-5 stars) indicates the consistency of the soiled Y-values (Ys) within a batch, scaled on a ratio from 1 to 5 stars

    Reliability Ratio Professional Dishwash Detergent
    Reliability Ratio (1-5 stars):
    The Reliability Ratio indicates the consistency of the repetitions in ΔY over the average cleaning levels (Avg(Yw)). Indicates the consistency of results between repetitions, scaled on a ratio from 1 to 5 stars.

16. Soil removal percentage of mimicking hand dishwashing with 300 grams weight.

17. Soil removal percentage of mimicking hand dishwashing with 600 grams weight.

18. **Discriminative Power Hand Dishwash Detergent**
    Discriminative Power Index (1-5 stars):

$$\frac{\sqrt{\sum_{i=1}^{n=1}\sum_{j=i+1}^{n}(1-T_{(\mu i=\mu j)})} * ABS(\mu_i=\mu_j)}{c}$$

    CFT developed this way of quantifying the Discriminative Power of a Testmaterial several years ago. It is based on the sum of the significance (Student T-Test) of all different results (in ΔY) times the size of this difference. This is scaled to a 5 star ratio.

    Reproducibility Ratio Hand Dishwash Detergent
    The Reproducibility Ratio (1-5 stars) indicates the consistency of the soiled Y-values (Ys) within a batch, scaled on a ratio from 1 to 5 stars

    Reliability Ratio Hand Dishwash Detergent
    Reliability Ratio (1-5 stars): The Reliability Ratio indicates the consistency of the repetitions in ΔY over the average cleaning levels (Avg(Yw)). Indicates the consistency of results between repetitions, scaled on a ratio from 1 to 5 stars.

19. Example soil removal pictures per amount of strokes.

20. Recommended TQC Sheen testing conditions for used Soiled CFT Tile. CFT has different detergent application methods:

ABS	Absorption of detergent in sponge
AC	Applying detergent on cloth
AS	Applying detergent on substrate
SOAK	Soak tile in detergent solution

INDEX

Code	Description	
DM-01	Lasagne Bolognese	10
DM-03	Shepherd's pie, baked	12
DM-04A	Carbonara sauce	14
DM-04B	Spaghetti carbonara	16
DM-06	Cheese, baked	18
DM-07	Spaghetti Bolognese sauce with cheese	20
DM-08	Cheese, baked, double soil load	22
DM-10	Crème brulée, baked	24
DM-11	Tea	24
DM-12	Tea with milk	28
DM-14	Highly discriminative tea	30
DG-15	Lipstick	32
DM-21	Egg yolk	34
DM-22	Egg yolk, double soil load	36
DM-23	Egg yolk, 1.5x soil load	38
DM-24	Egg yolk, 0.75x soil load	40
DM-25	Boiled egg yolk, based on IKW protocol	42
DM-26	Full egg	44
DM-31	Egg yolk with milk	46
DM-32	Egg yolk with milk, double soil load	48
DM-33	Egg yolk with milk, 1.5x soil load	50
DM-34	Egg yolk with milk, 0.75x soil load	52
DM-40X	Olive oil with pigment	54
DM-42	Blueberry yoghurt	56
DM-44	IKW hand dish soil Normal	58
DM-45	Fat mix with food colourant	60
DM-46	Gravy	62
DS-47	Baked on grease	64
DM-51	Red wine	66
DM-54	Oatmeal, coloured with chocolate	68
DM-60	Spinach	70
DM-62	Curry	72
DM-63	Chicken Biryani	74
DM-71	Mixed (corn/rice) starch, coloured with food colourant	76
DM-73	Barilla pasta, coloured with food colourant	78
DM-75	Chocolate pudding	80
DM-76	Corn starch, coloured	82
DM-176	Corn starch, coloured, extra severe	84
DM-276	Corn starch, coloured, double soil load	86
DM-376	Corn starch, coloured, triple soil load	88
DM-476	Corn starch, coloured, heavy load extra stubborn	90
DM-77	Mixed (corn/rice) starch, coloured	92
DM-177	Mixed (corn/rice) starch, coloured, extra severe	94
DM-277	Mixed (corn/rice) starch, coloured, double soil load	96
DM-377	Mixed (corn/rice) starch, coloured, triple soil load	98
DM-477	Mixed (corn/rice) starch, coloured, heavy load extra stubborn	100
DM-78	Rice starch, coloured	102
DM-178	Rice starch, coloured, extra severe	104
DM-278	Rice starch, coloured, double soiled	106
DM-378	Rice starch, coloured, triple soil load	108
DM-79	Potato starch, coloured	110
DM-81	Coffee	112
DM-82	Espresso coffee	114
DM-83	Coffee with milk	116
DM-91	Minced meat	118
DM-92	Minced meat, double soil load	120
DM-93	Minced meat, triple soil load	122
DT-94	Vegan Beyond meat	124
DM-96	Minced meat with fat, triple soil load	126
DS-105	Heavily burnt on pasta and cheese	128
DS-106	Heavily burnt on cheese sauce	130
DS-146	Heavily burnt on gravy	132
DC-30	Highly discriminative soap scum	134
DM-40	All-purpose cleaner soil based on IKW protocol	135
DS-48	Oven cleaner stain	136
DC-57	Calcium stearate, based on IKW recommend. for bathroom cleaners	137

CFT

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DM-Series

The DM-Series was initially developed for Automatic Dishwash testing. This will reflect in the suitability of these tiles for other applications. Nevertheless some of these tiles are also very suitable for handdish liquid formulation experiments, especially in combination with our CFT developed test method using a TQC Sheen Washability Tester. Recently we have also identified which tiles are suitable for use in professional I&I dishwash tests.

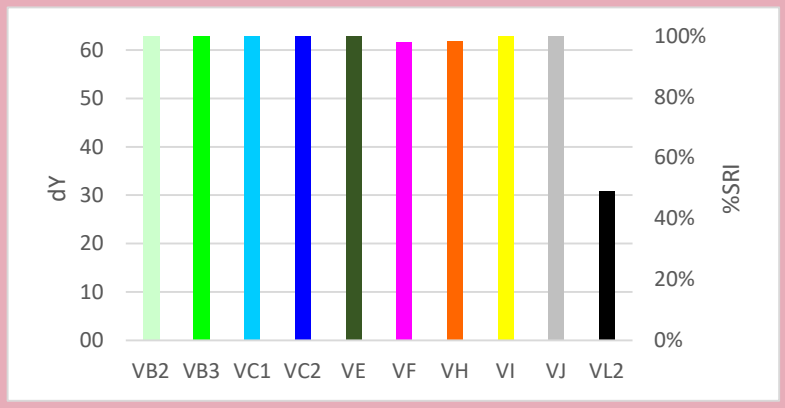
DM-01

Lasagne Bolognese

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★★☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-01	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-01	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



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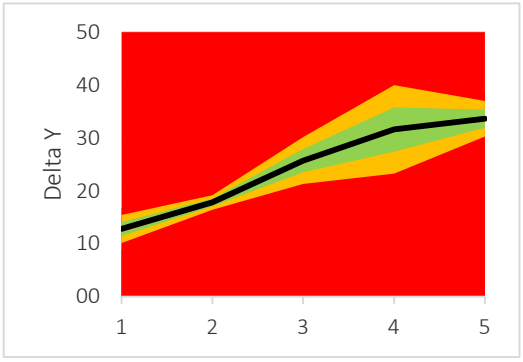
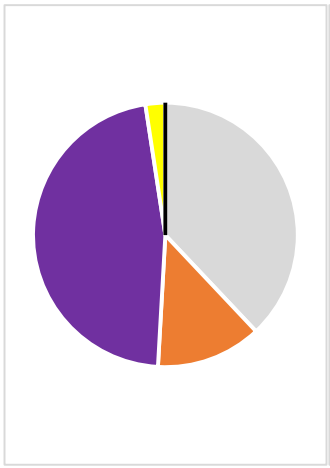
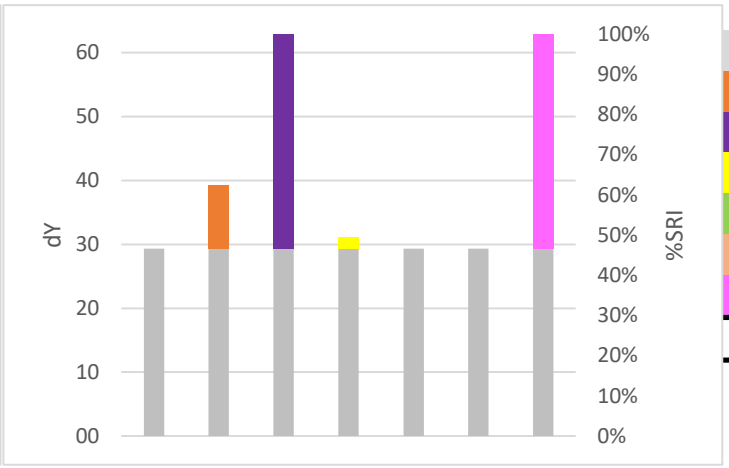


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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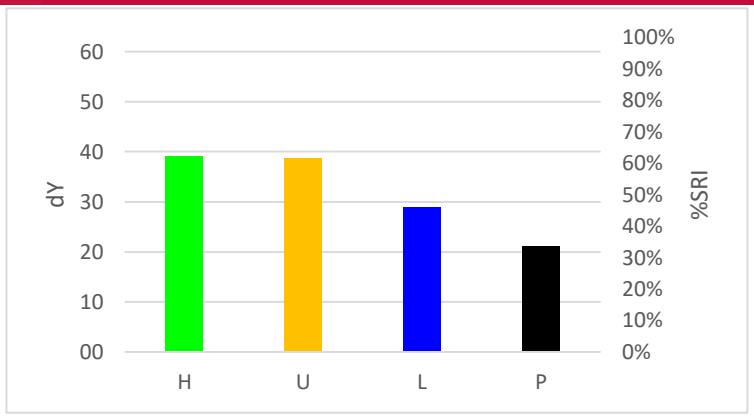
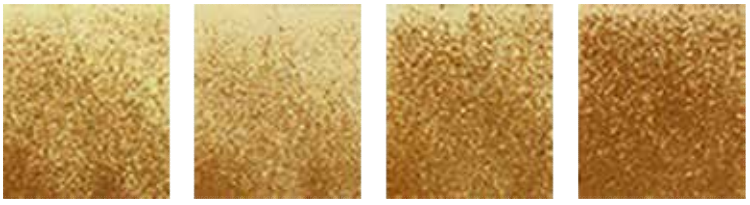
Professional cleaning detergent comparison



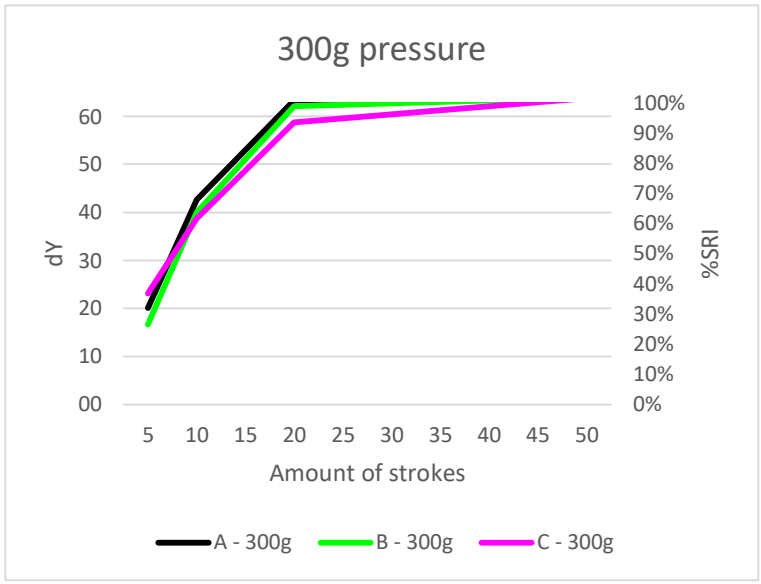
DM-01

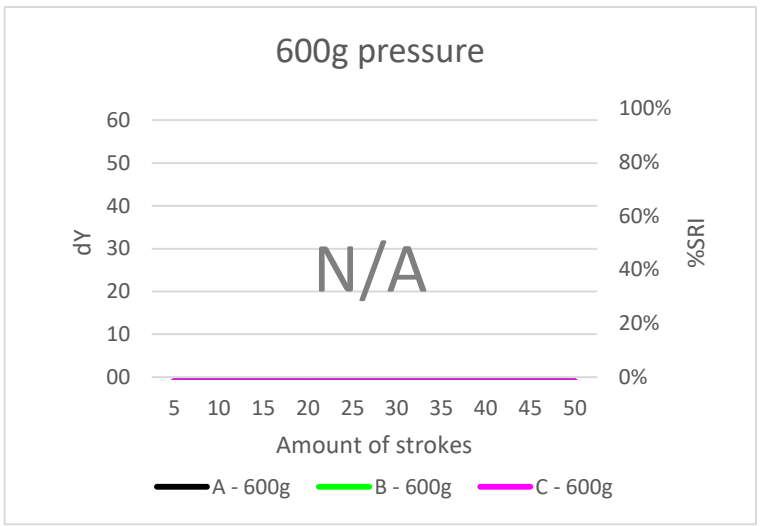


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★☆☆☆

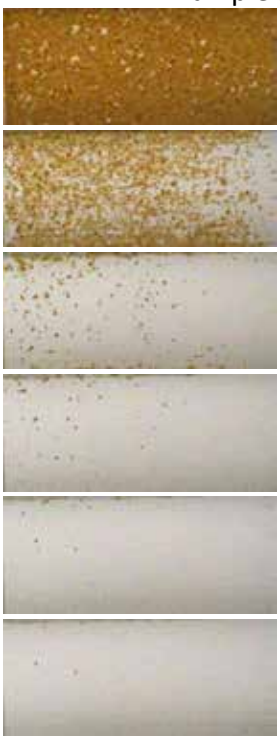
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★☆☆☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

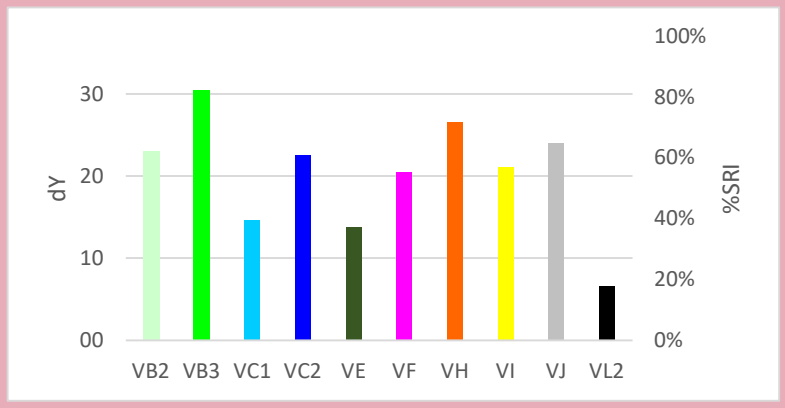
DM-03

Shepherd's pie, baked

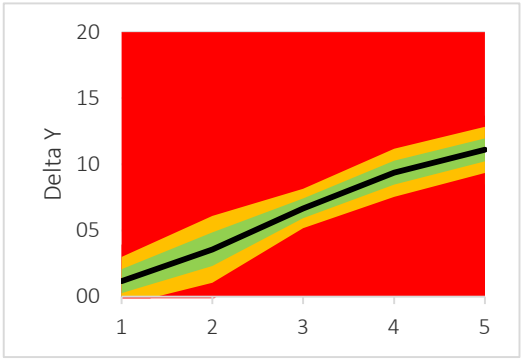
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-03	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-03	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



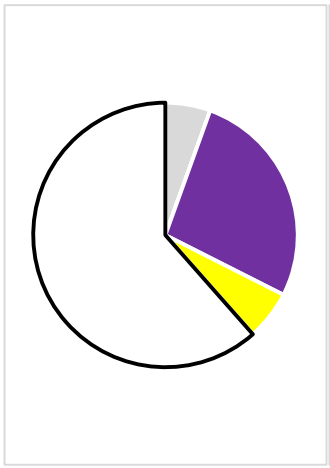
Quality Control

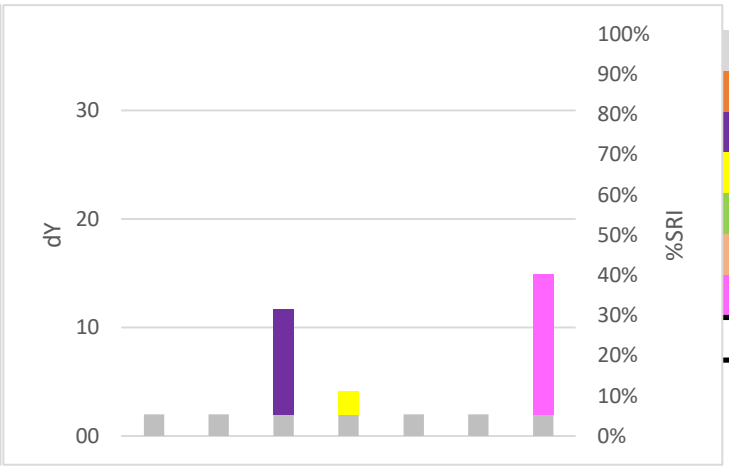


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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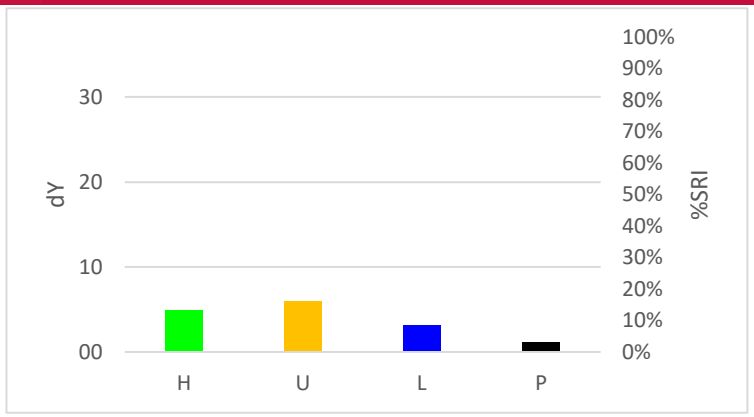
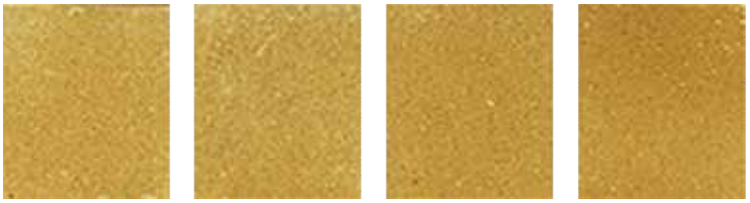
Professional cleaning detergent comparison



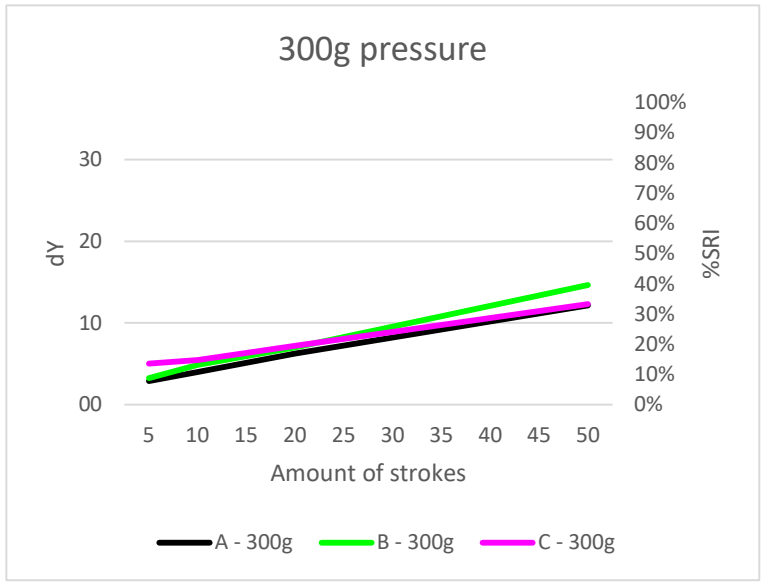
DM-03

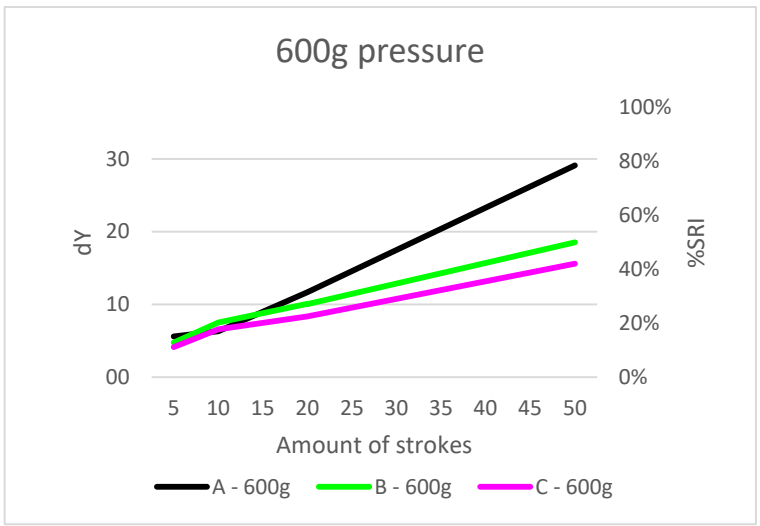


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

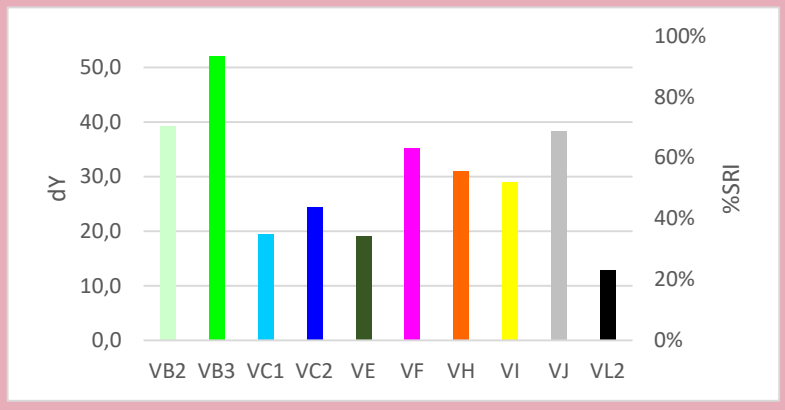
DM-04A

Carbonara sauce

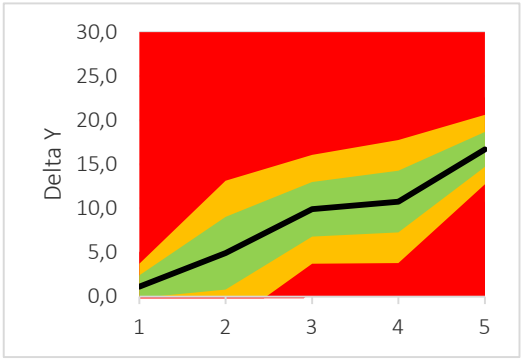
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-04A	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-04A	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



Quality Control



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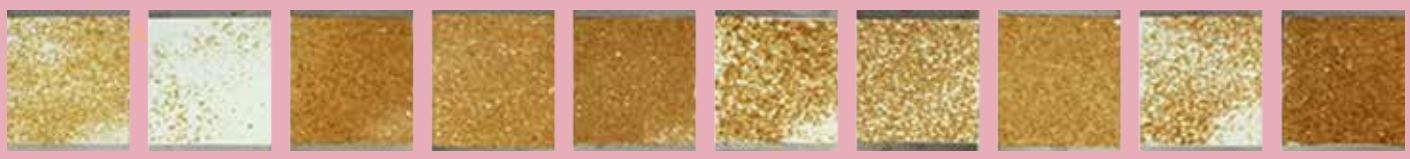
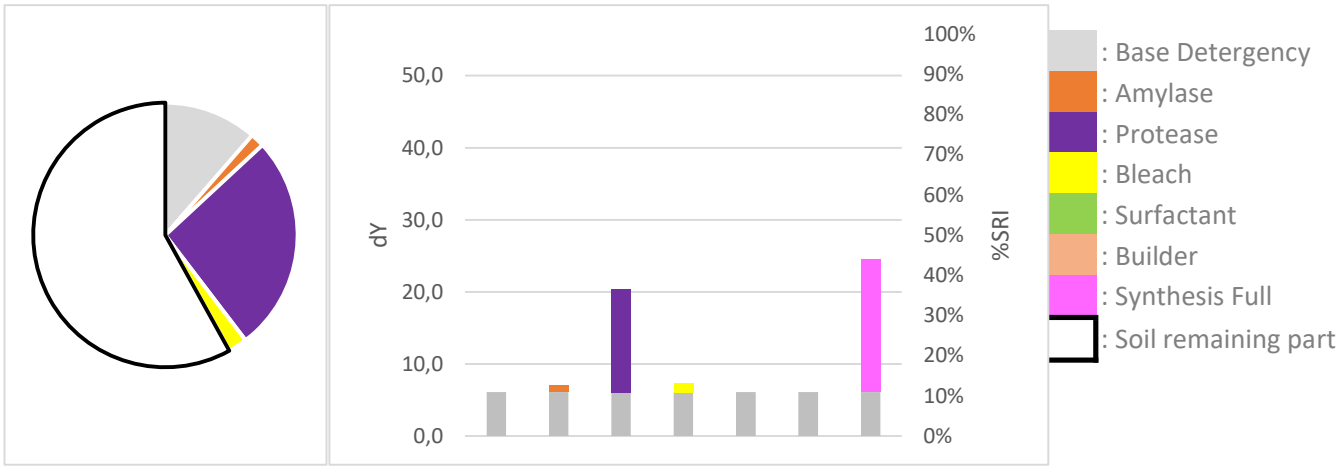


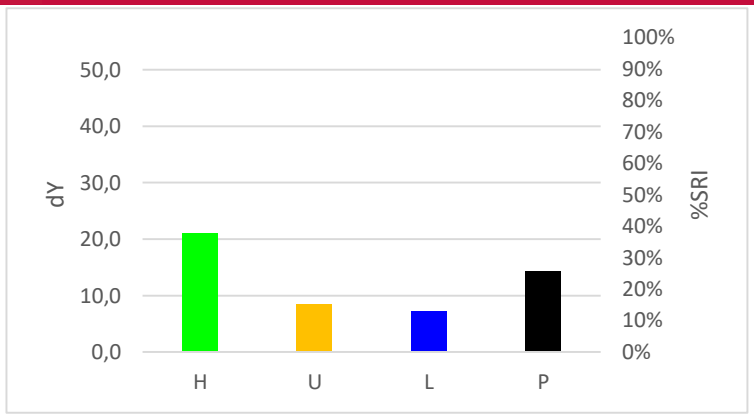
VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

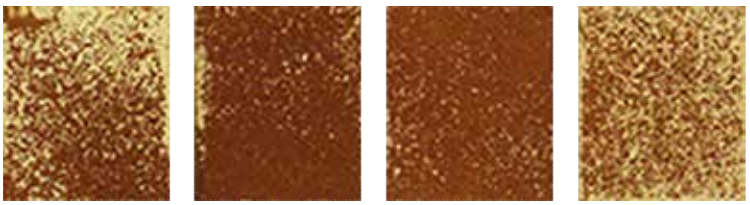


This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison



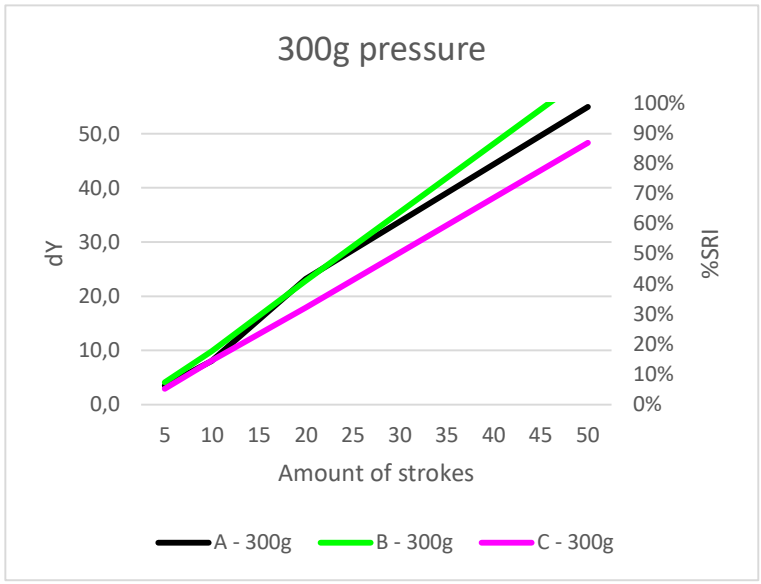
DM-04A

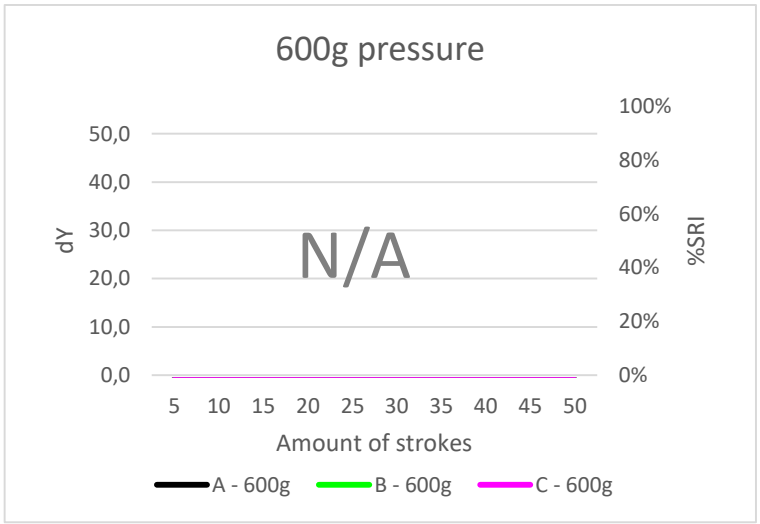


H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★☆☆☆☆

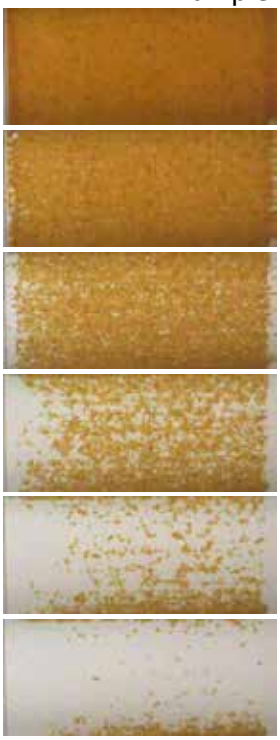
Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★☆☆☆☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

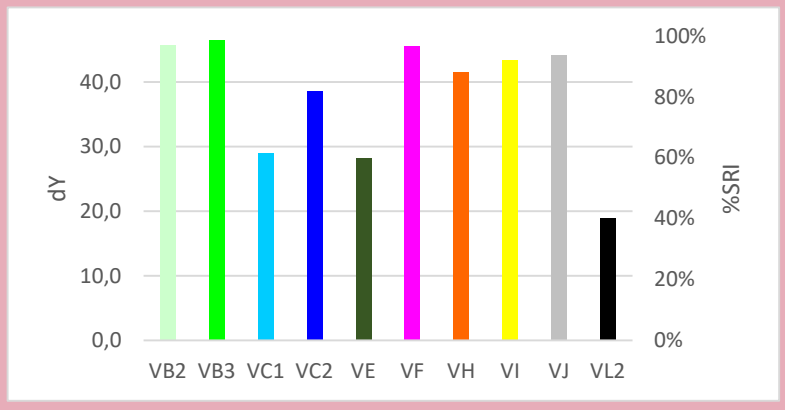
DM-04B

Spaghetti carbonara

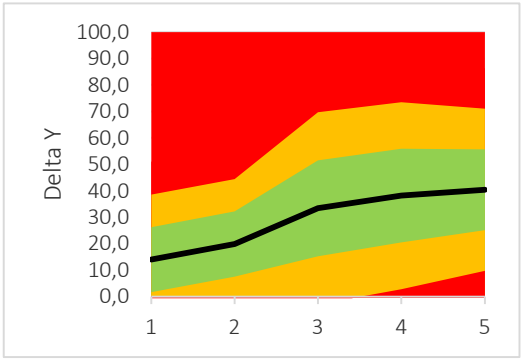
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-04B	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-04B	Technical Porcelain (DT H)	120 x 100 x 1	87,2

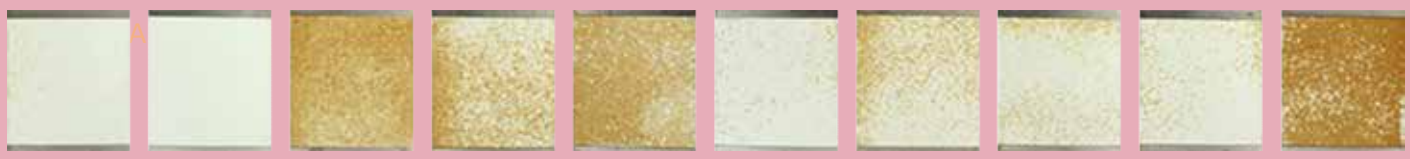
Autodish detergent comparison



Quality Control

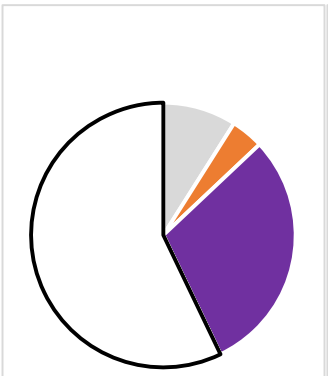


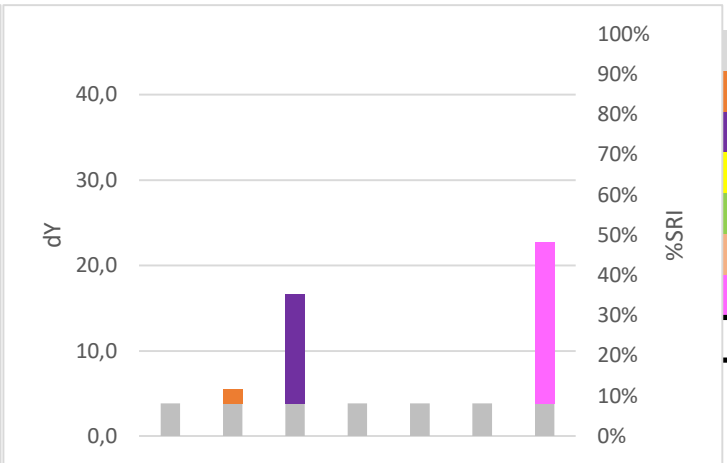
CFT-GSM D + Protease



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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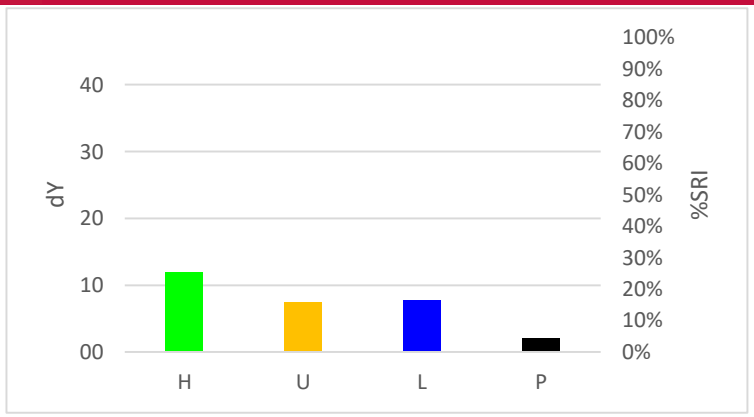
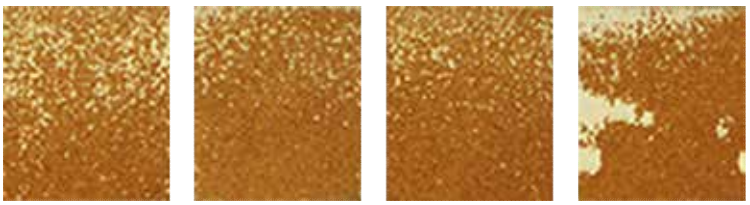
Professional cleaning detergent comparison

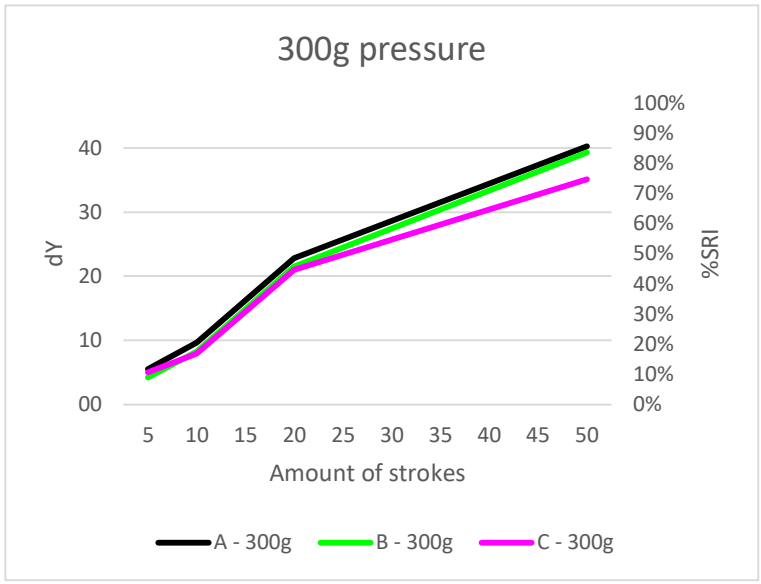
DM-04B

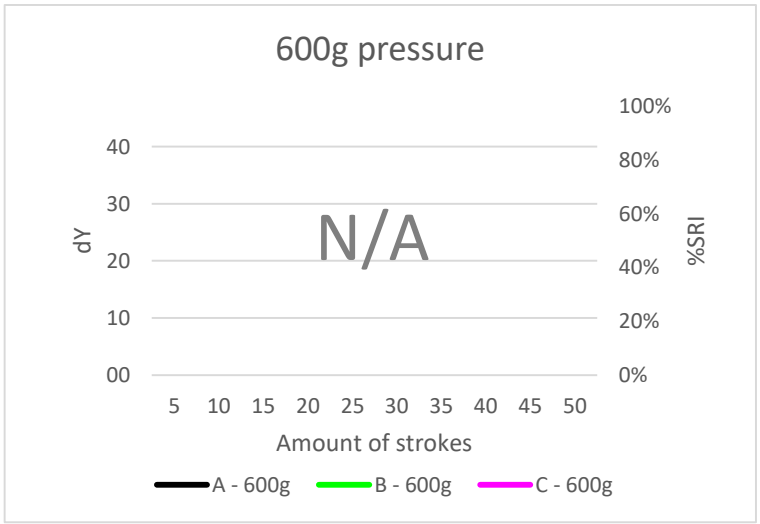




Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

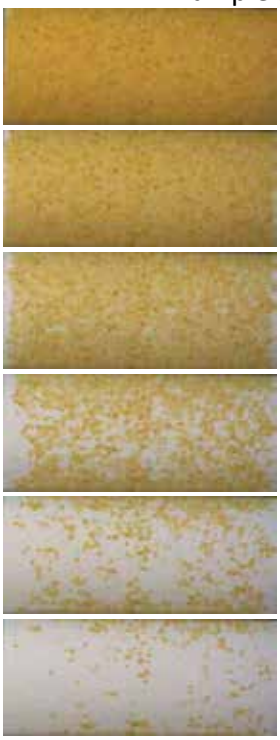
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

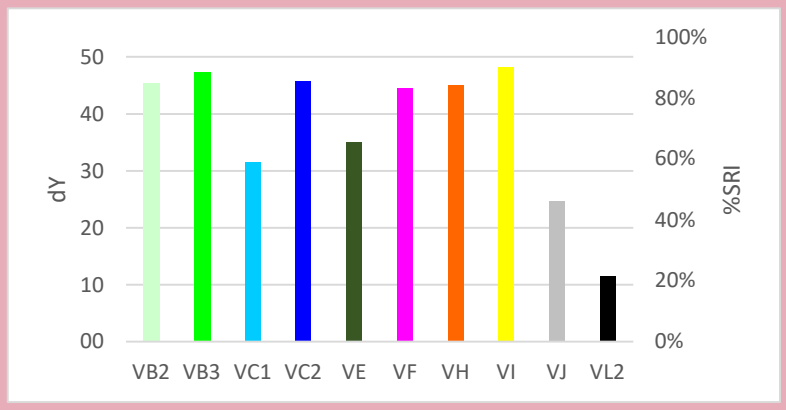
DM-06

Cheese, baked

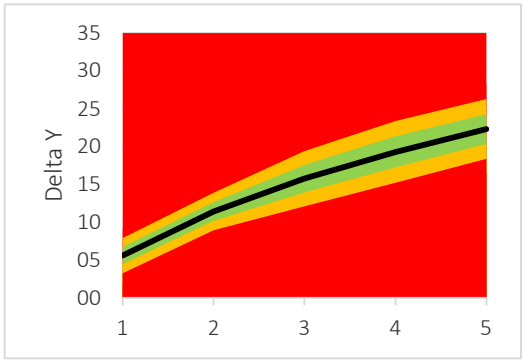
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-06	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-06	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



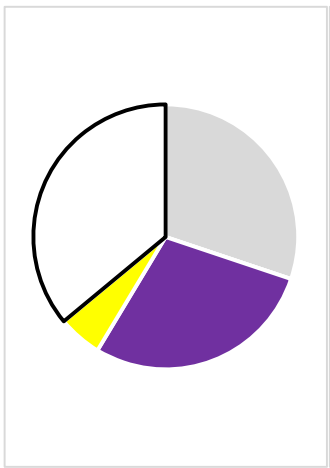
Quality Control

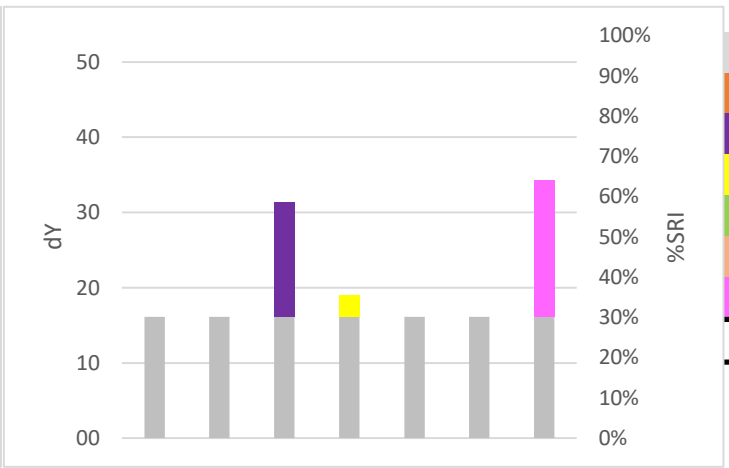


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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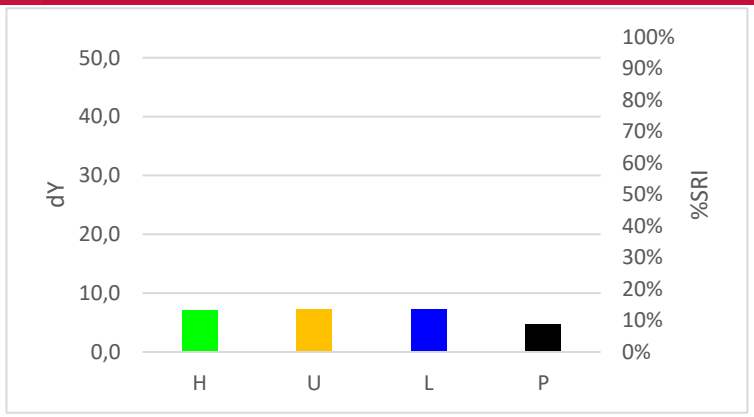
Professional cleaning detergent comparison

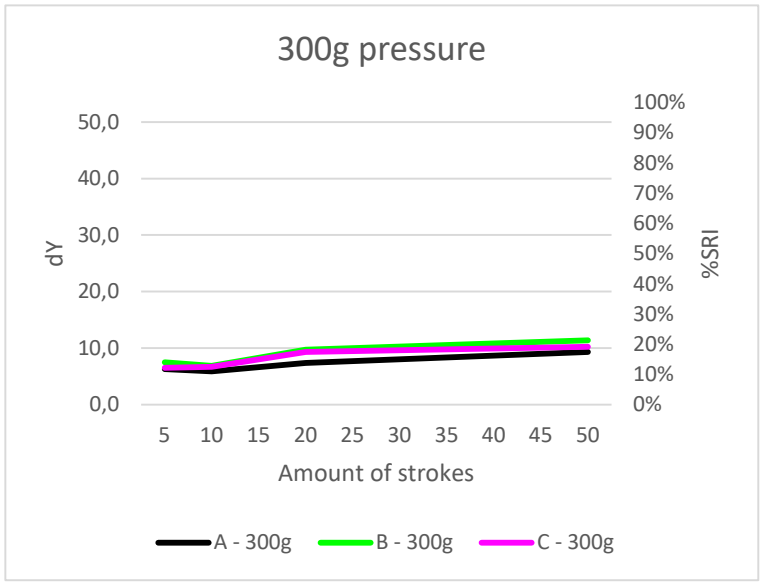
DM-06

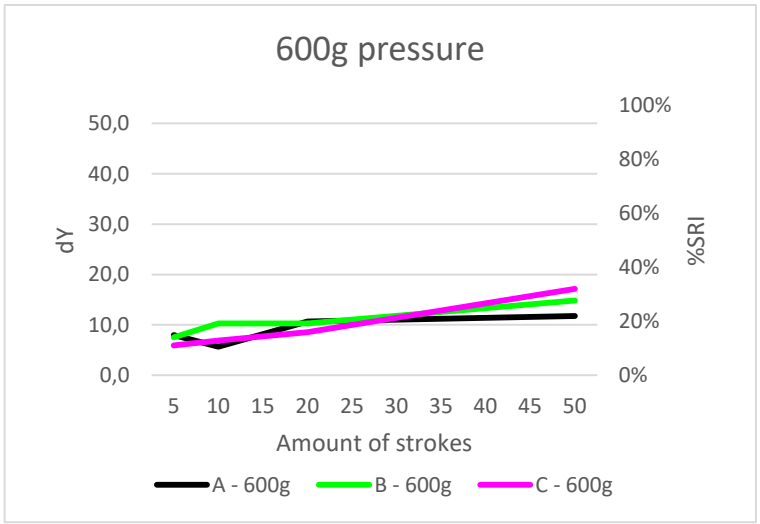


H U L P

Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

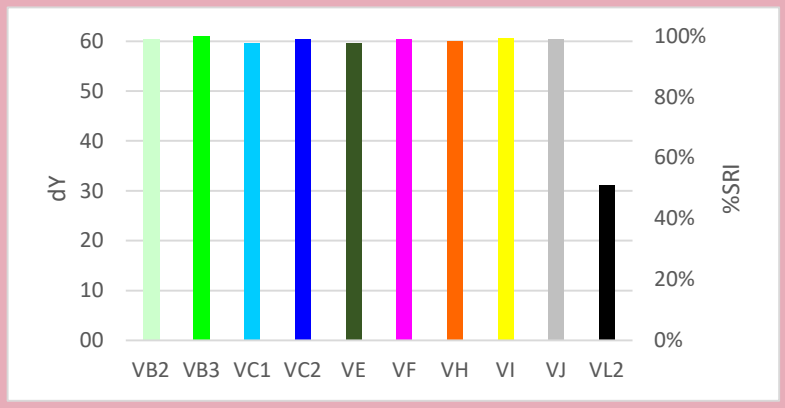
DM-07

Spaghetti Bolognese sauce with cheese

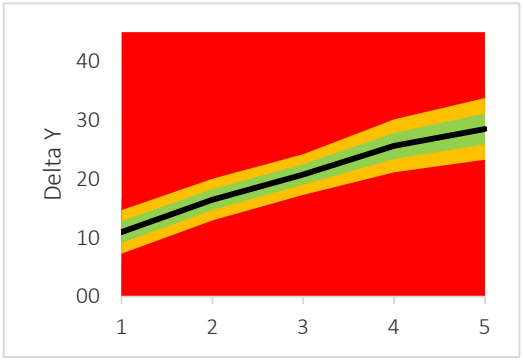
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-07	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-07	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



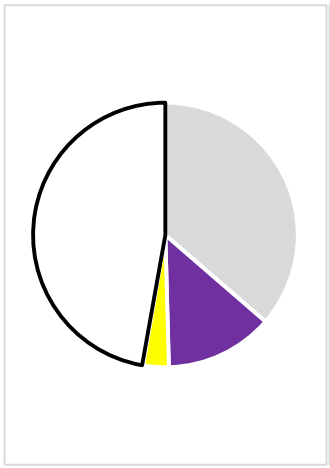
Quality Control

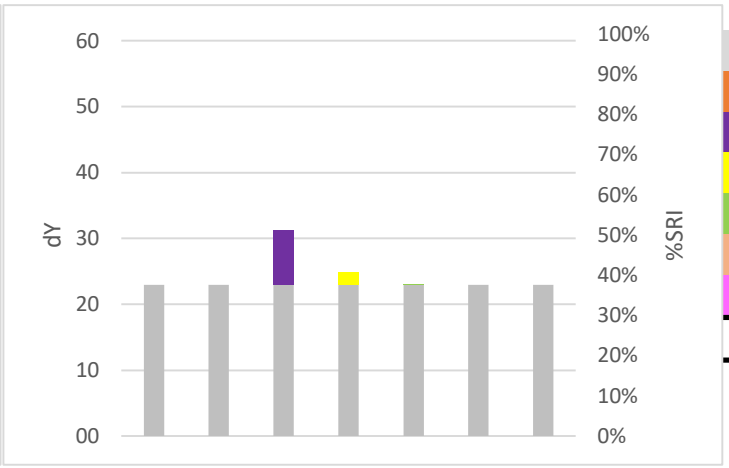


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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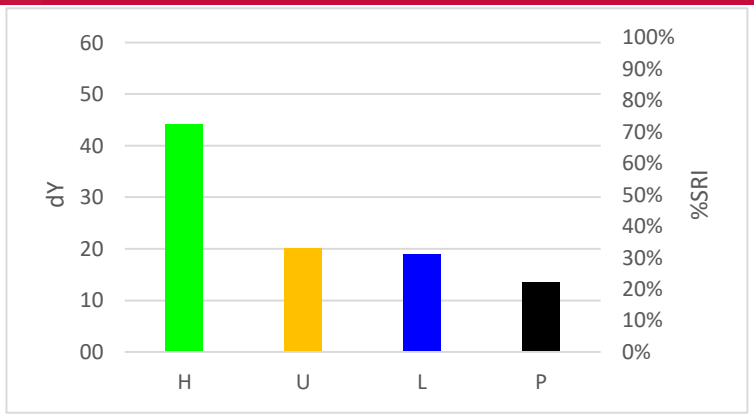
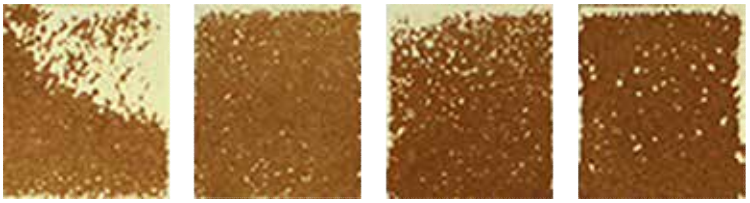
Professional cleaning detergent comparison

DM-07

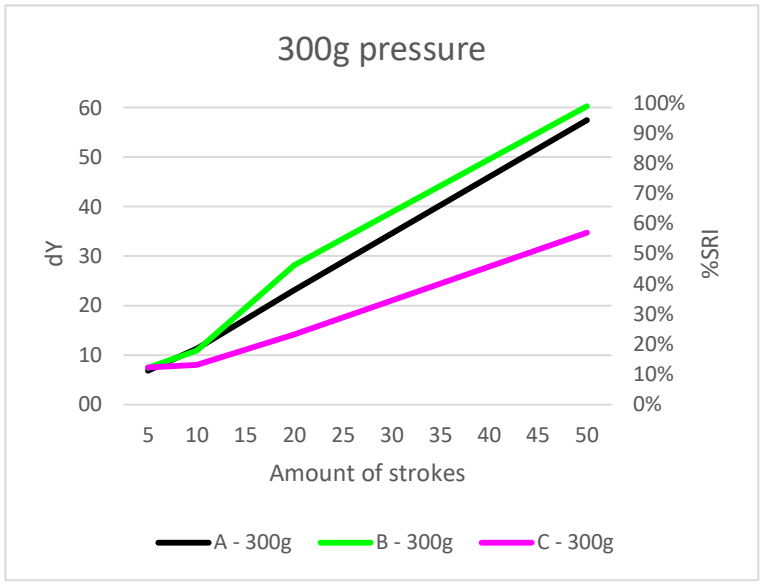


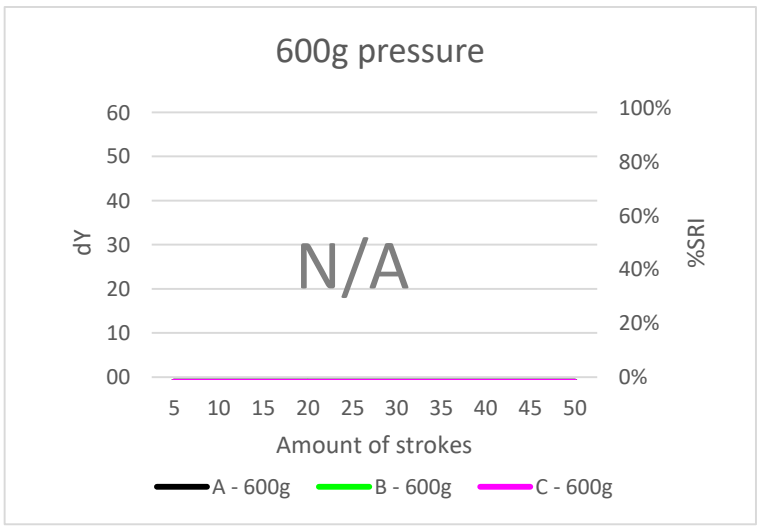


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆

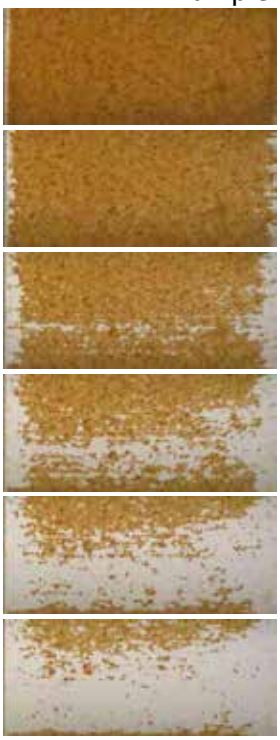
Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

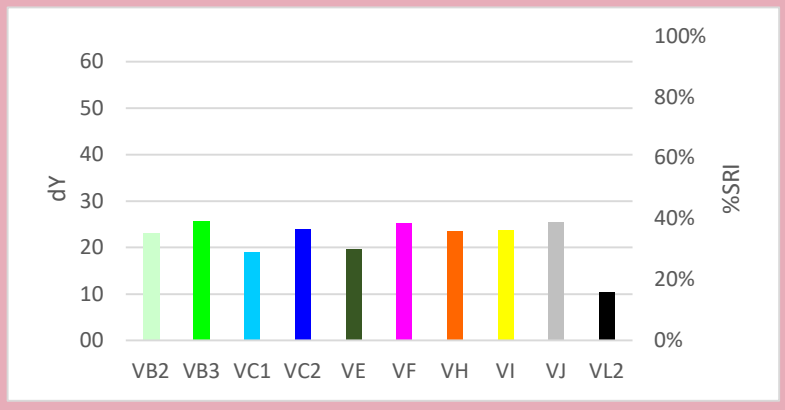
DM-08

Cheese, baked, double soil load

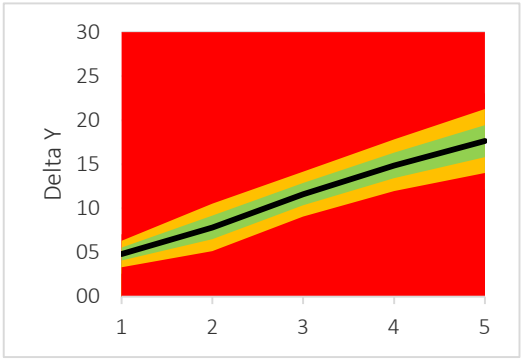
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-08	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-08	Technical Porcelain (DT H)	120 x 100 x 1	87,2

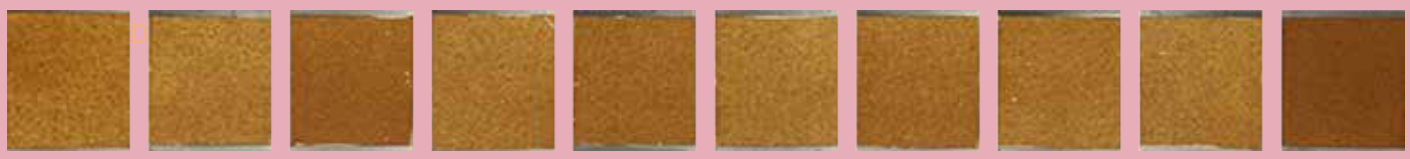
Autodish detergent comparison



Quality Control

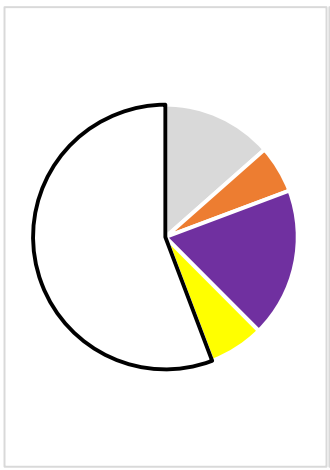


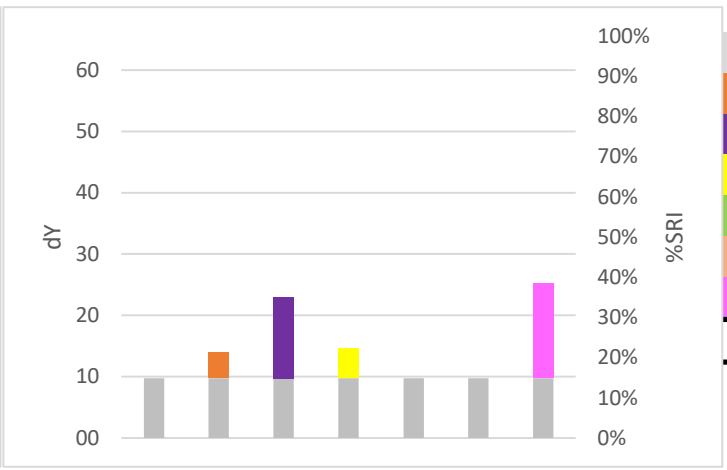
CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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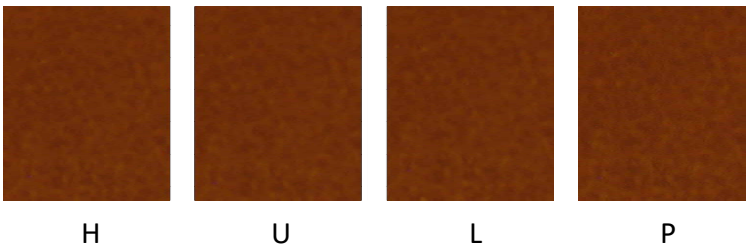
Professional cleaning detergent comparison

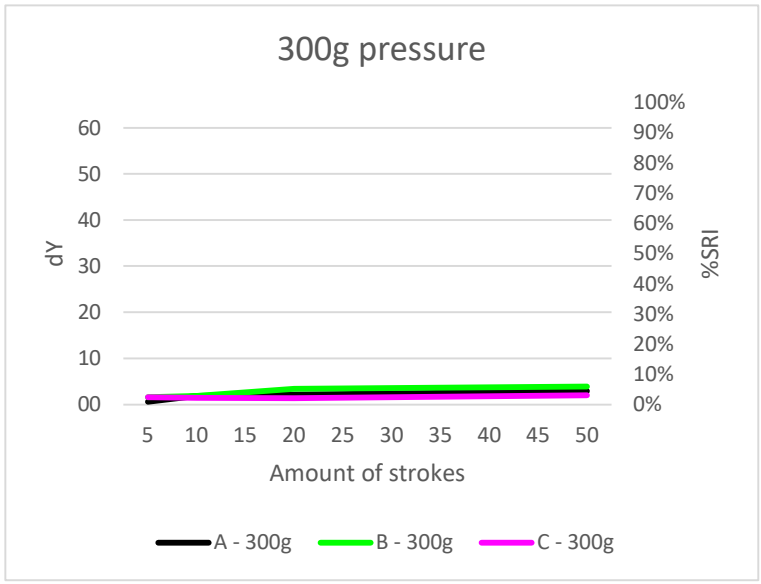
DM-08

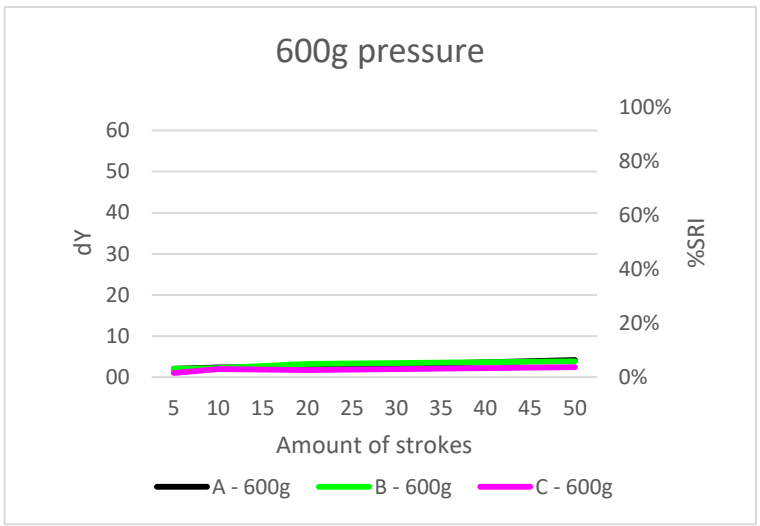


H U L P

Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

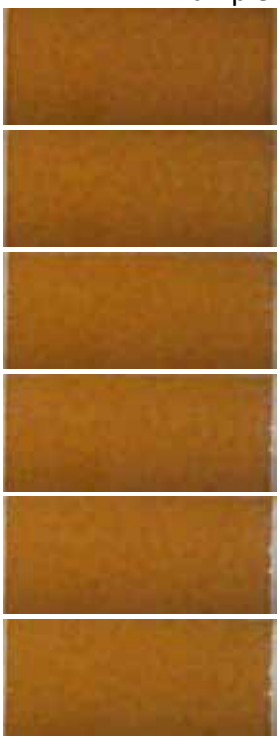
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

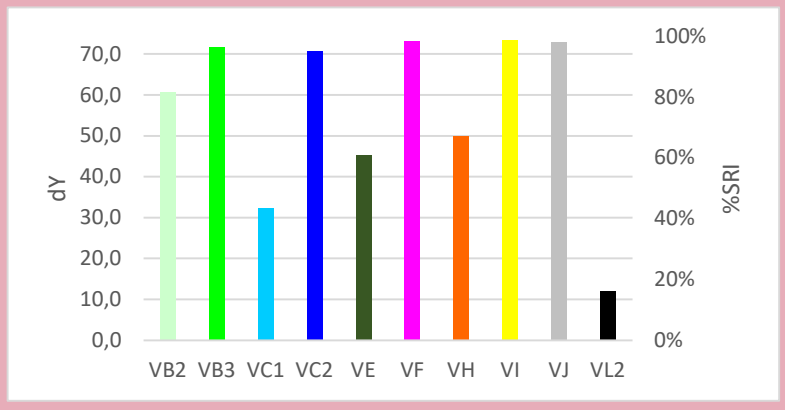
DM-10

Crème brulée, baked

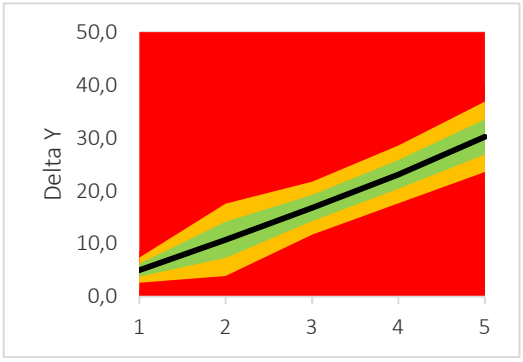
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★☆☆☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-10	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-10	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DG-10	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-10	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



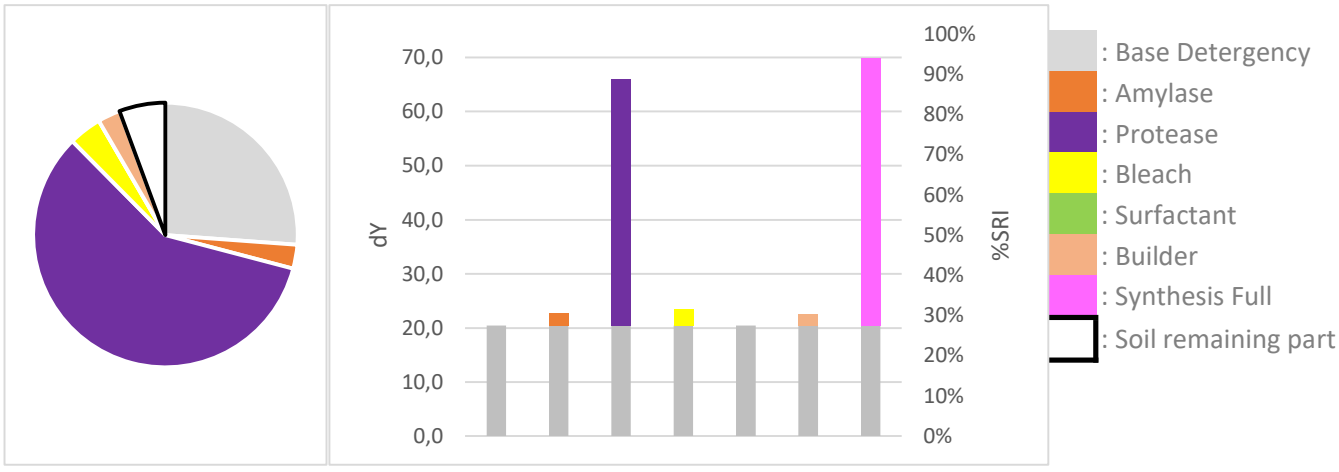
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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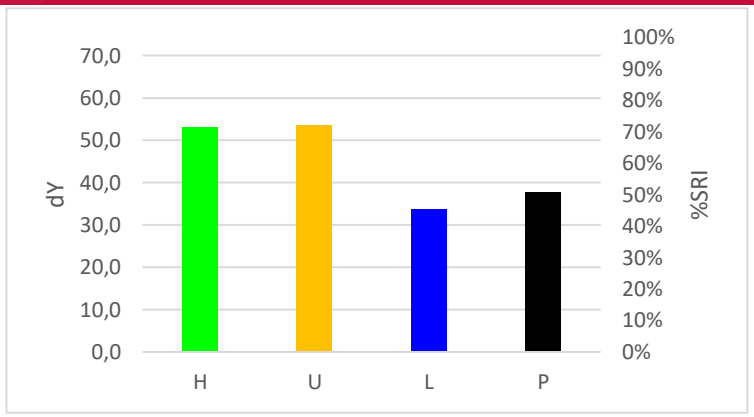
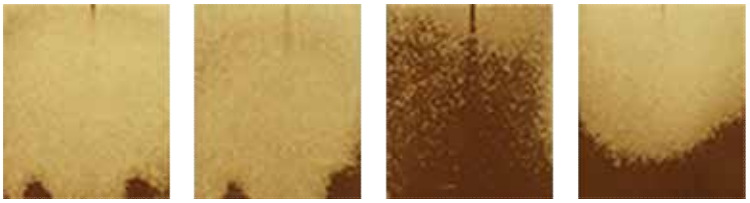
Professional cleaning detergent comparison



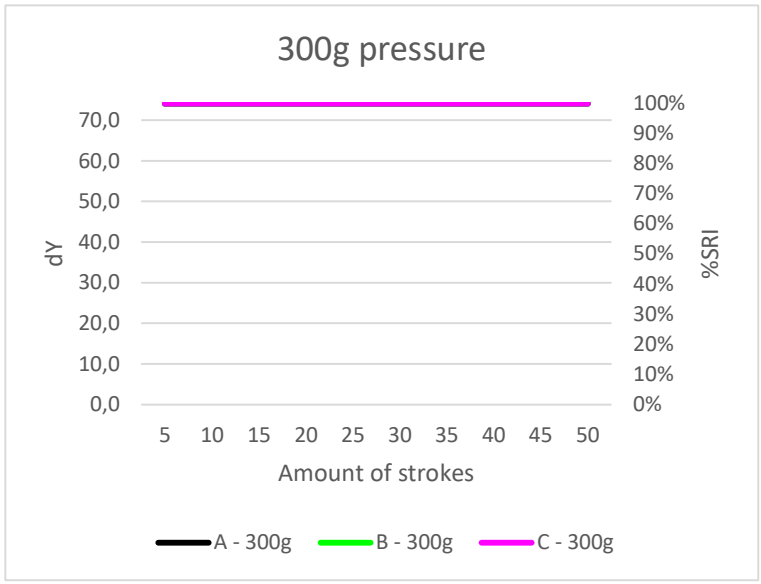
DM-10

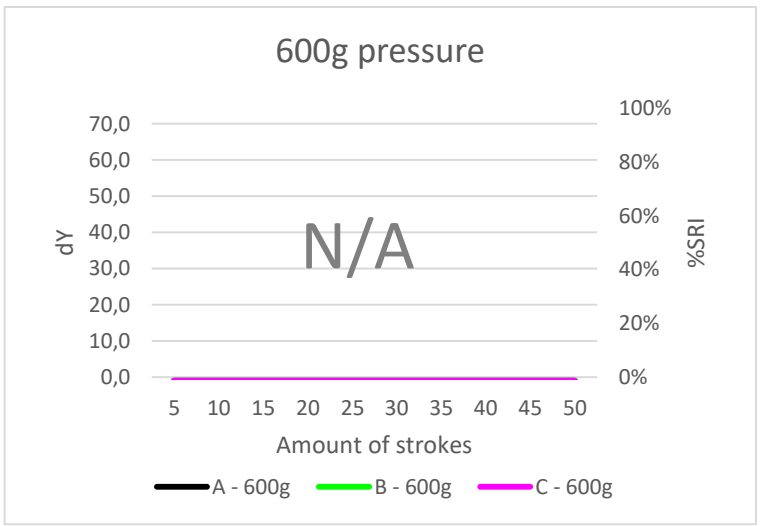


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★☆☆☆

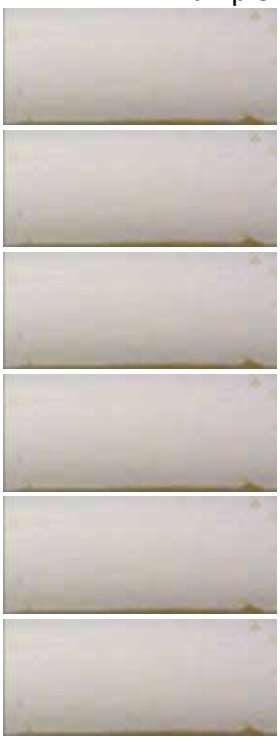
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

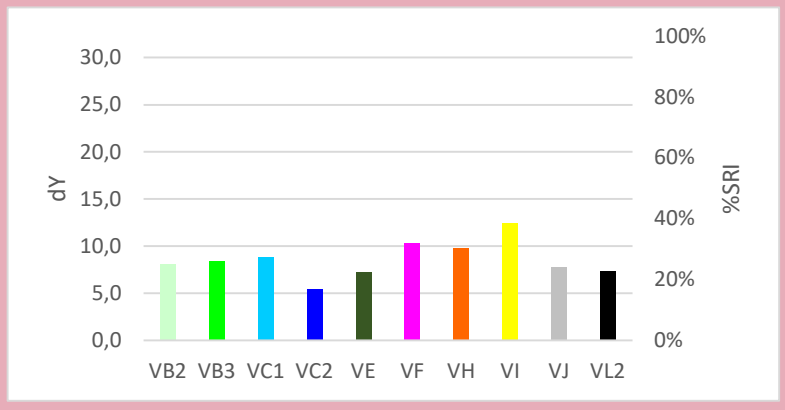
DM-11

Tea

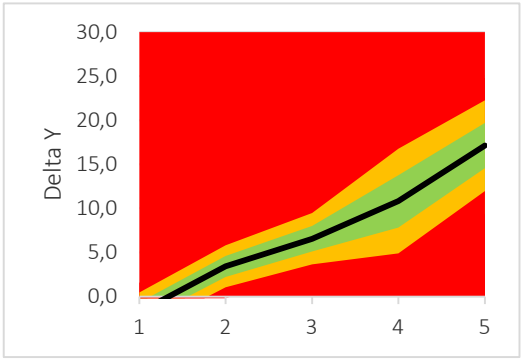
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-11	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



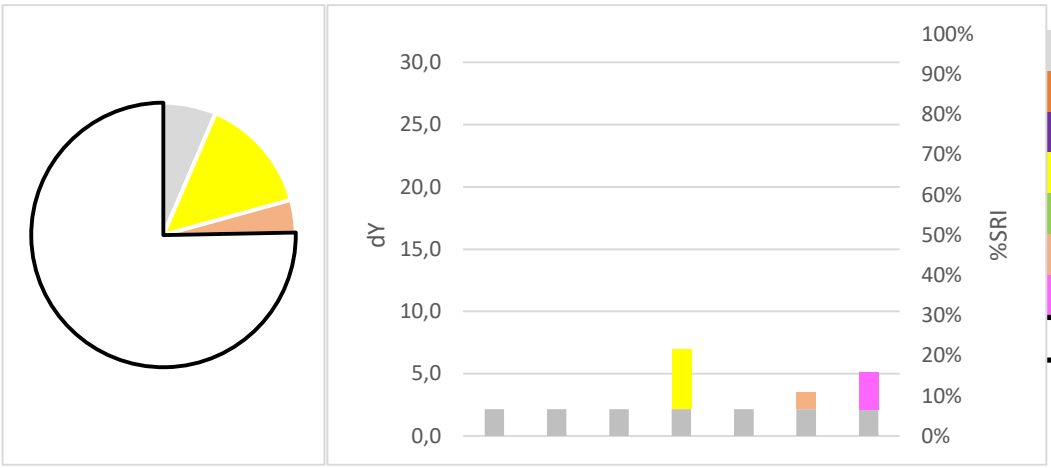
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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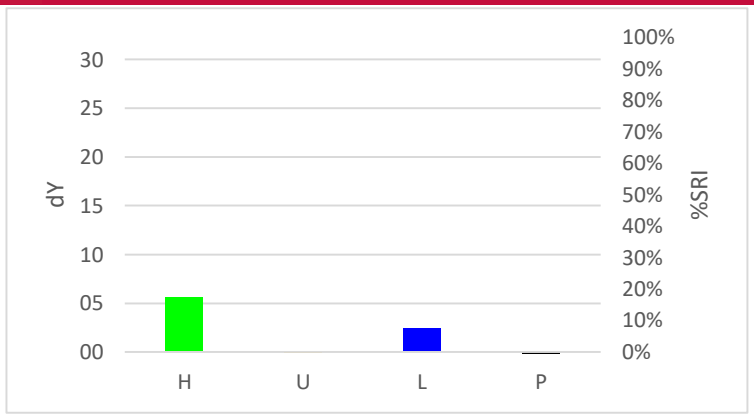
Professional cleaning detergent comparison

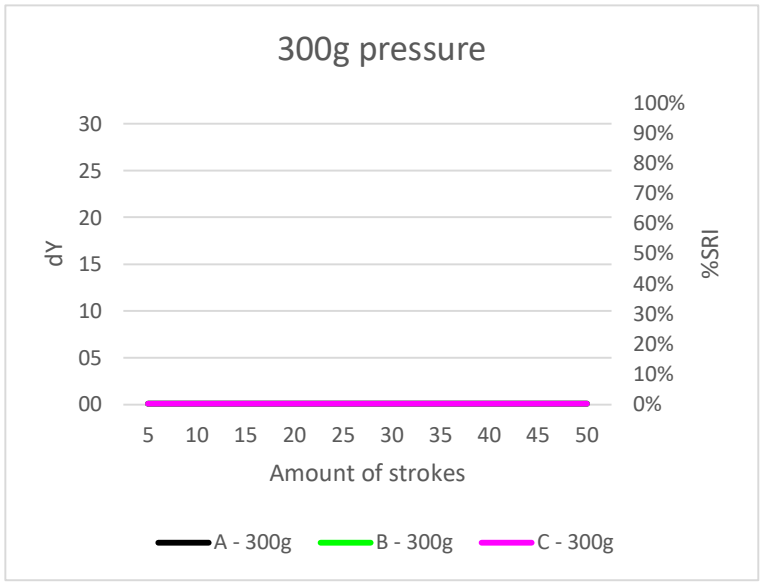
DM-11

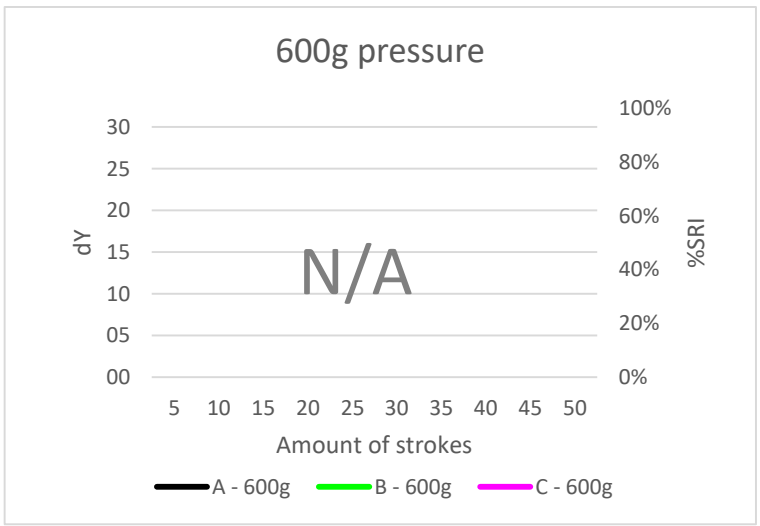


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

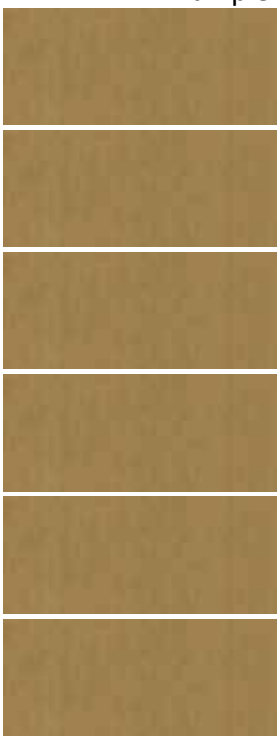
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

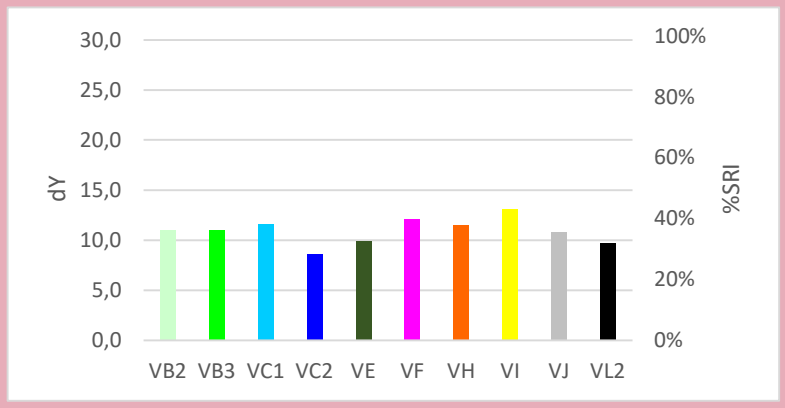
DM-12

Tea with milk

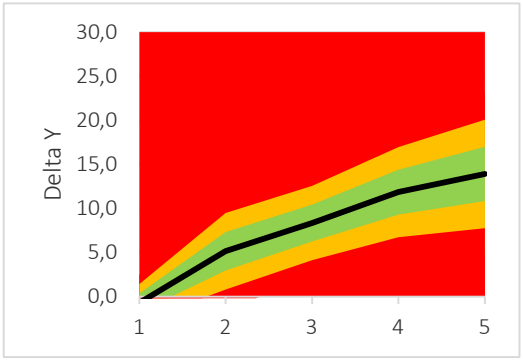
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-12	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



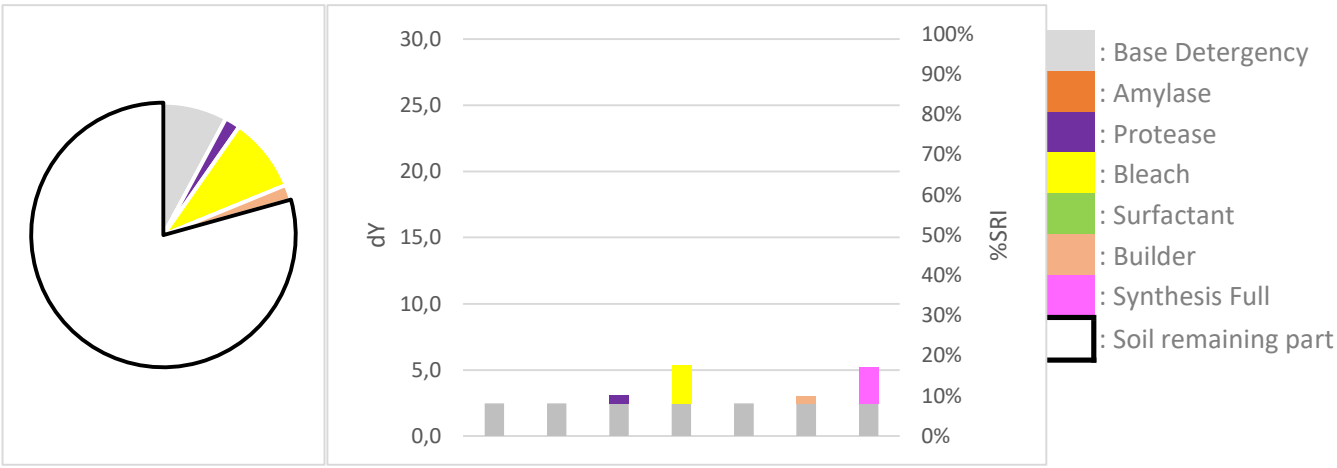
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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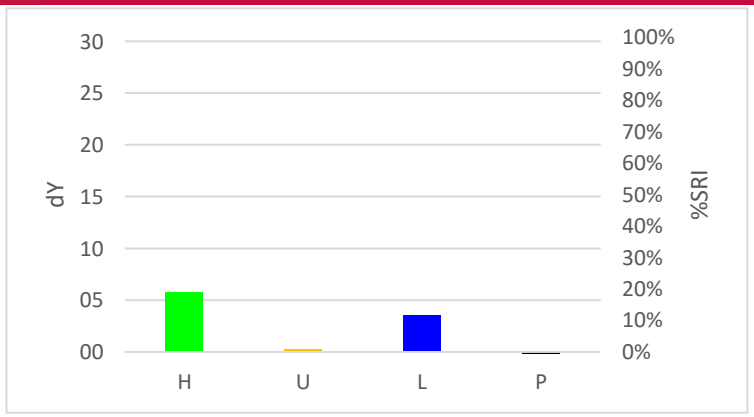
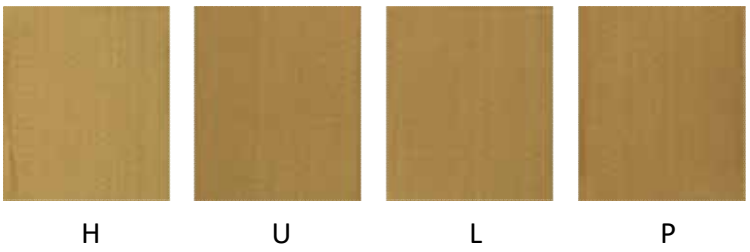
Professional cleaning detergent comparison

DM-12

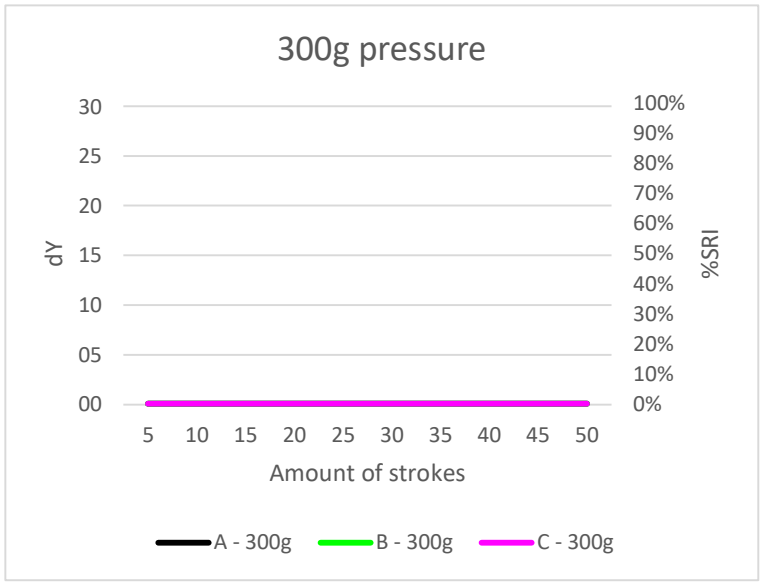


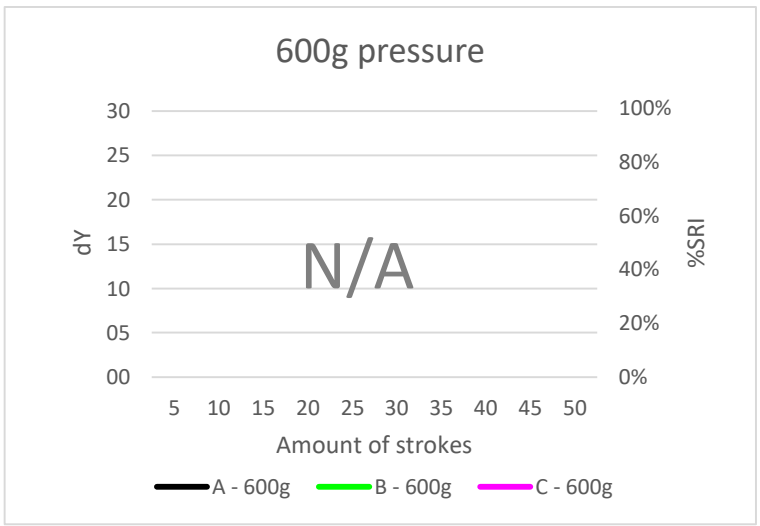


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

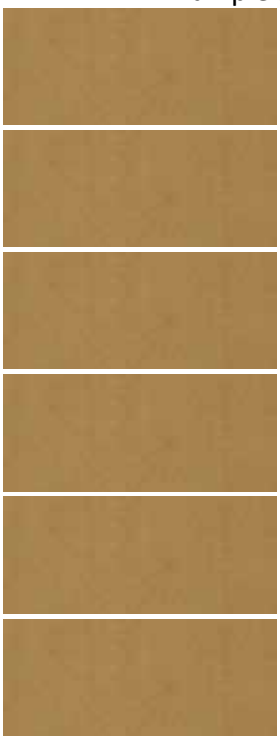
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

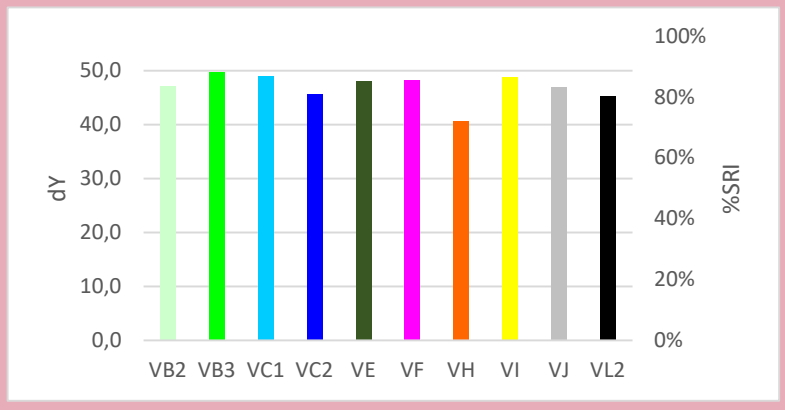
DM-14

Highly discriminative tea

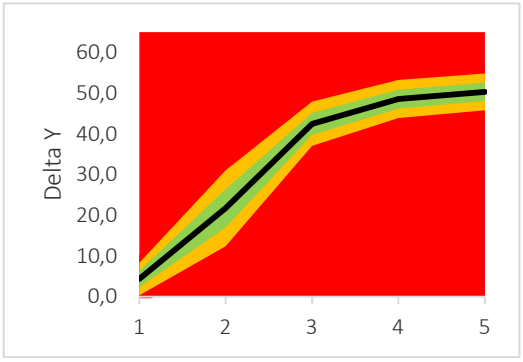
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-14	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-14	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



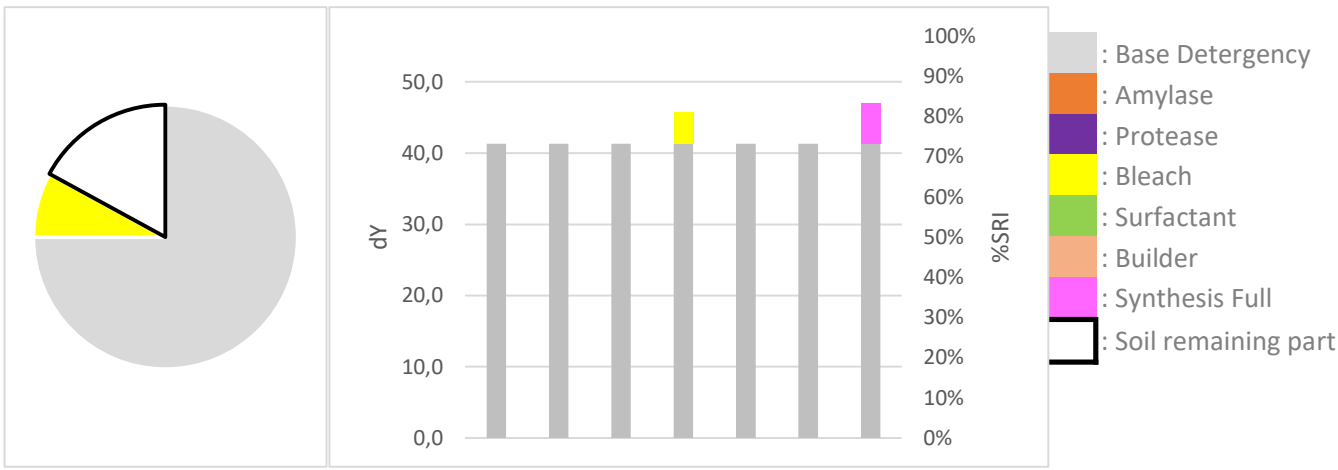
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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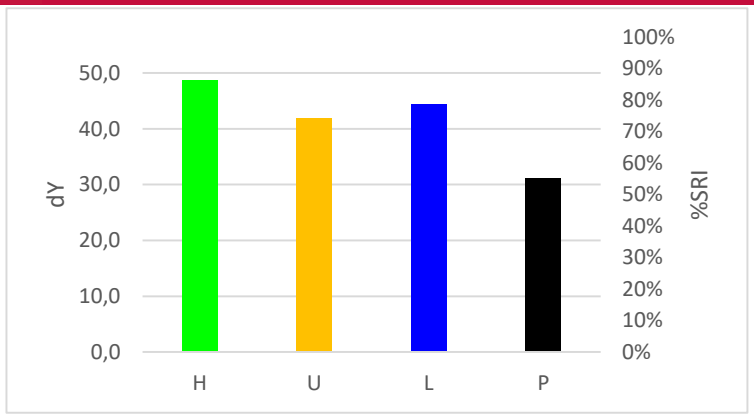
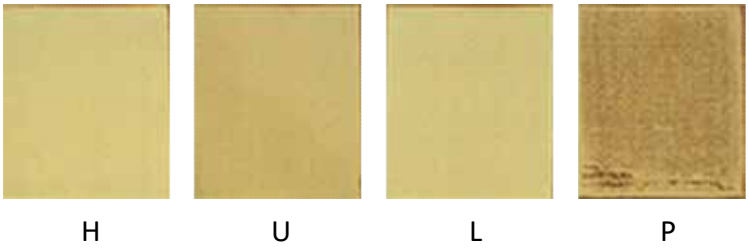
Professional cleaning detergent comparison

DM-14

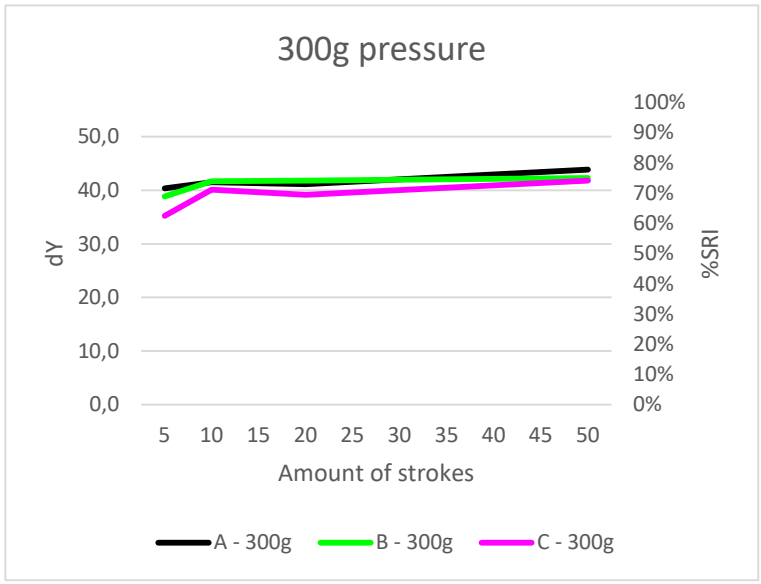


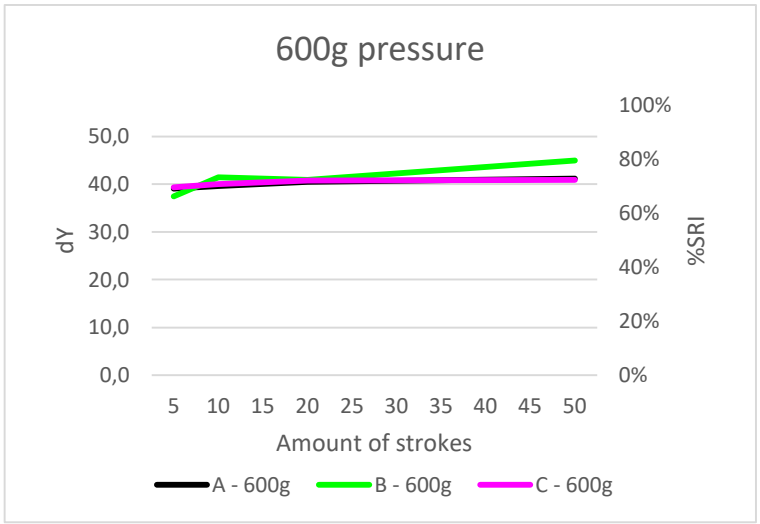


H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆

Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

DG-15

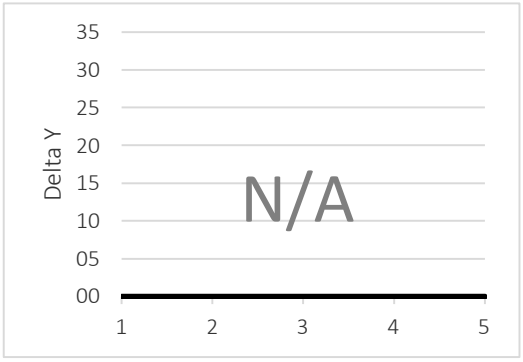
Lipstick

Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ☆☆☆☆☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-15	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DG-15	Glass plate, smooth (DG H)	120 x 100 x 2	87,5

Autodish detergent comparison

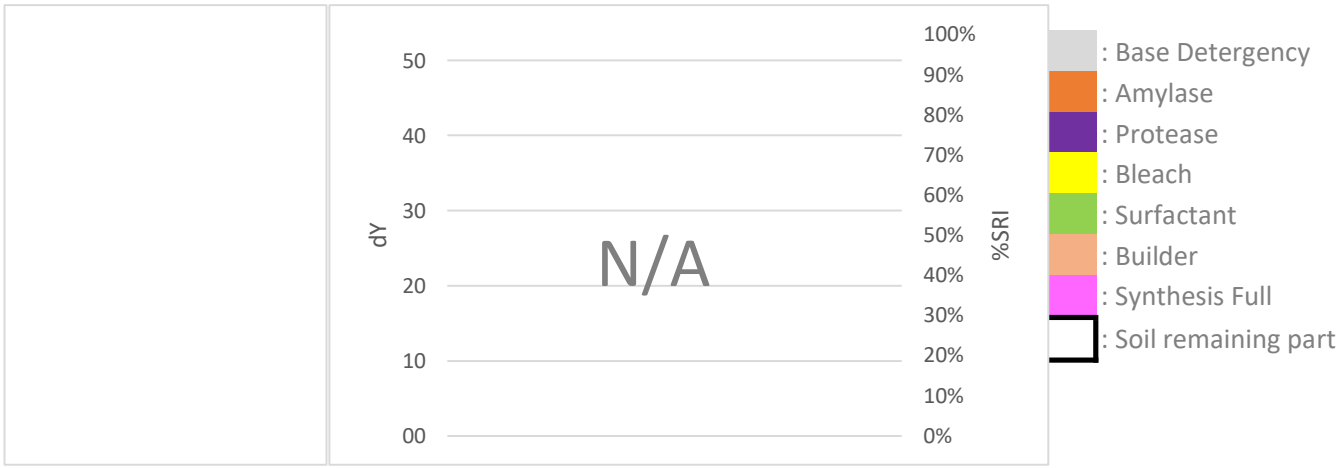
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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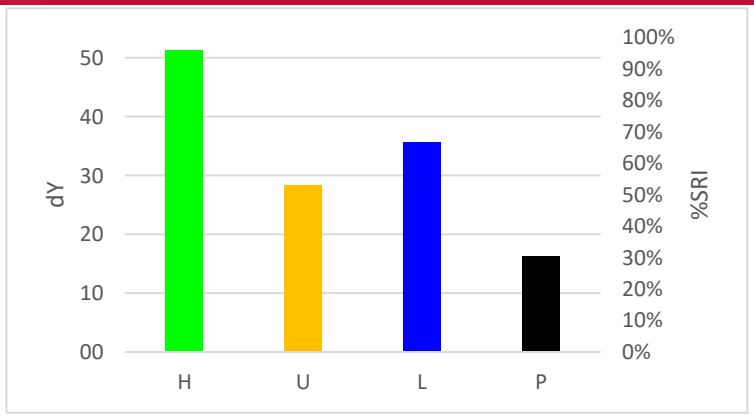
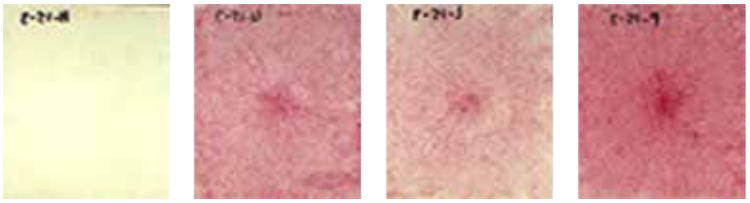
Professional cleaning detergent comparison

DG-15

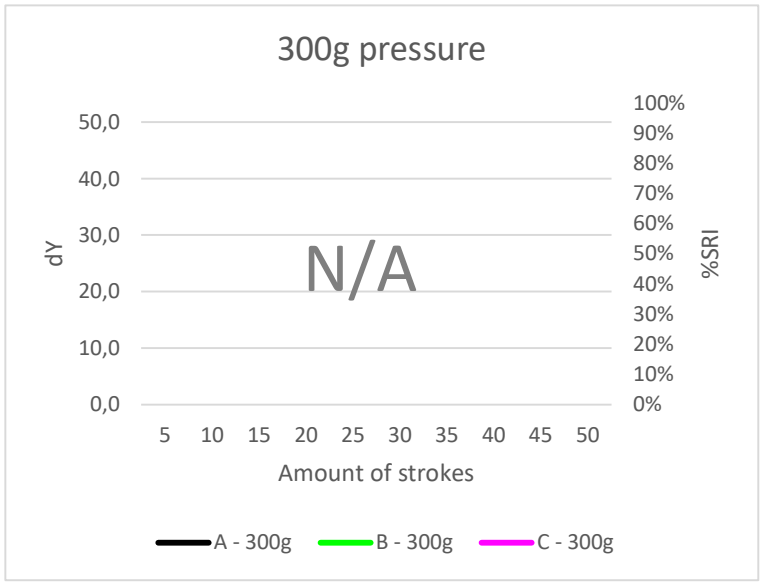


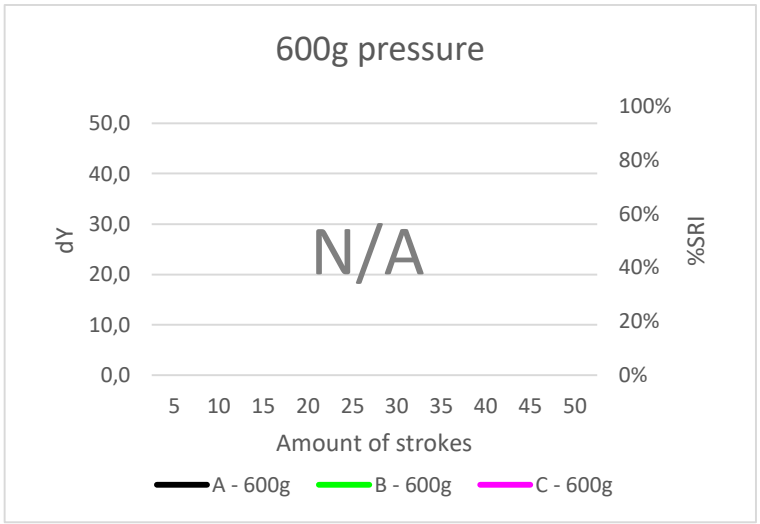


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆

Hand dishwash detergent comparison





Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ☆☆☆☆☆

Example soil removal pictures

N/A	1 stroke
N/A	10 strokes
N/A	20 strokes
N/A	30 strokes
N/A	40 strokes
N/A	50 strokes

Recommended TQC testing conditions

Amount of cycles:	N/A
Amount of pressure:	N/A
Speed cycles/min:	N/A
Length in mm:	N/A
Utensil:	N/A
Application method:	N/A

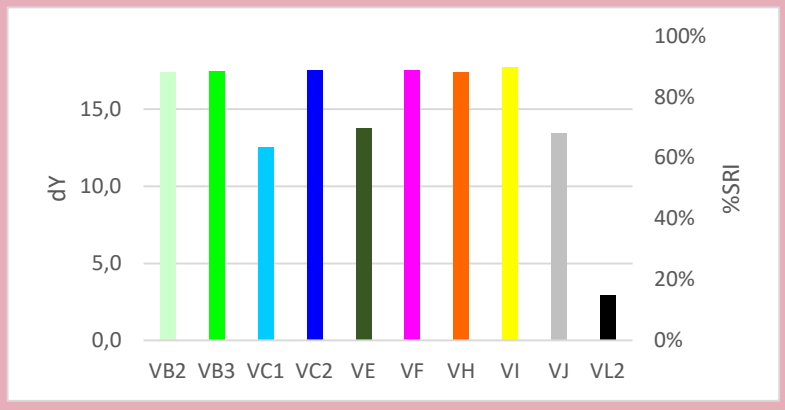
DM-21

Egg yolk

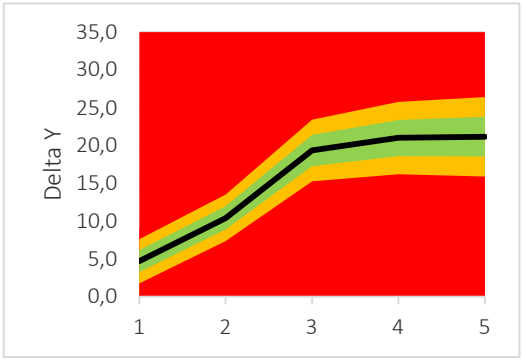
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-21	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-21	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-21	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-21	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-21	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



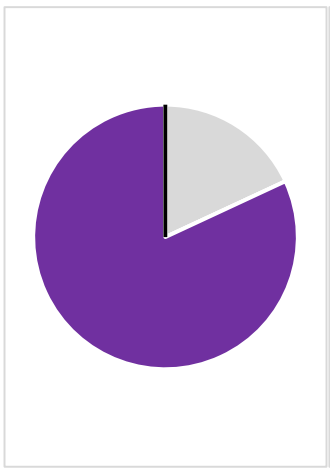
Quality Control

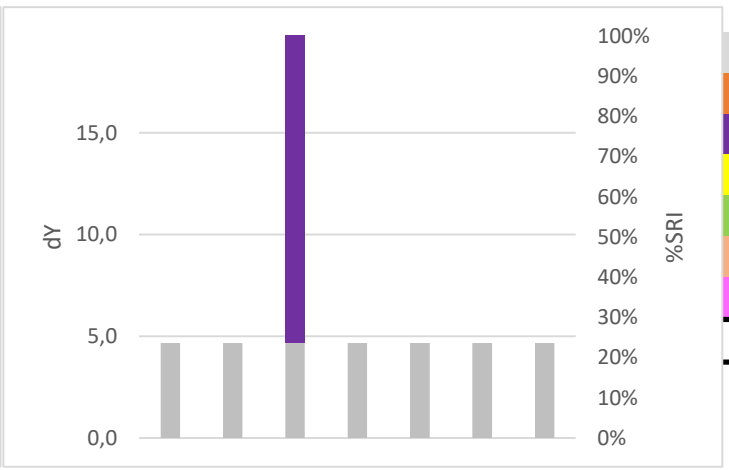


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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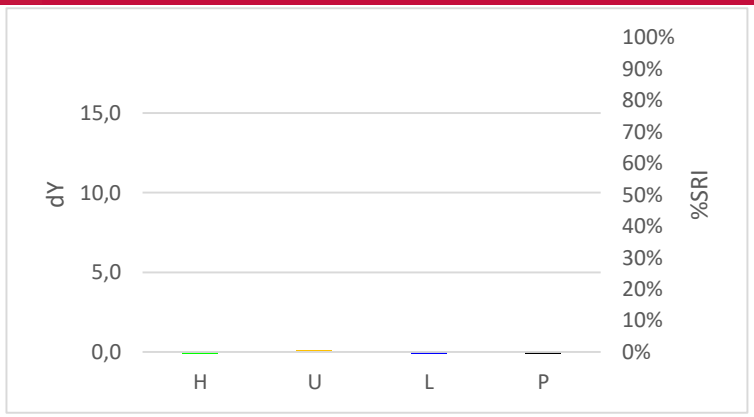
Professional cleaning detergent comparison

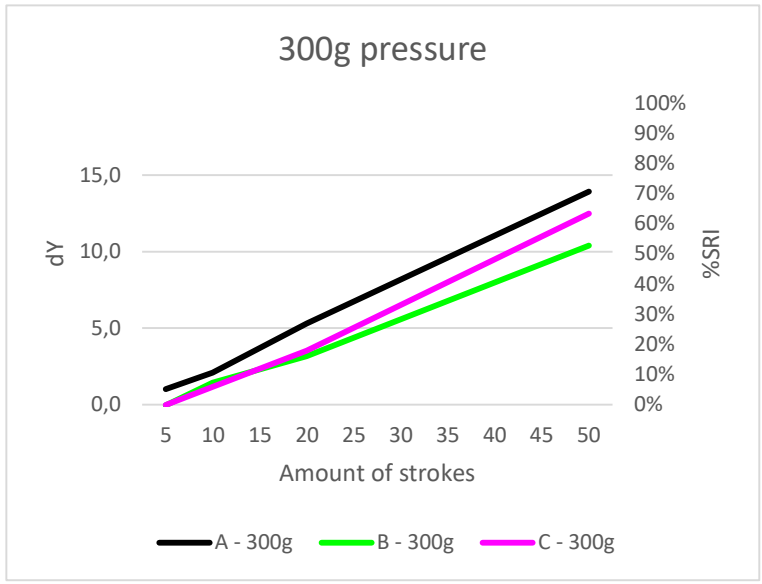
DM-21

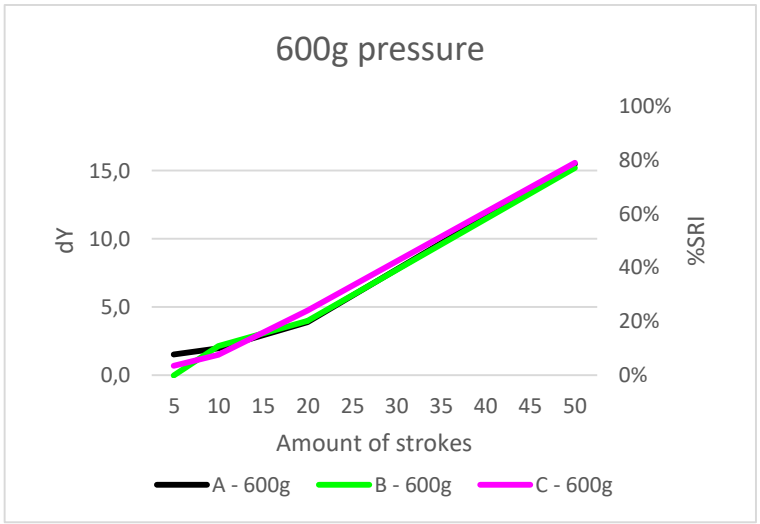


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

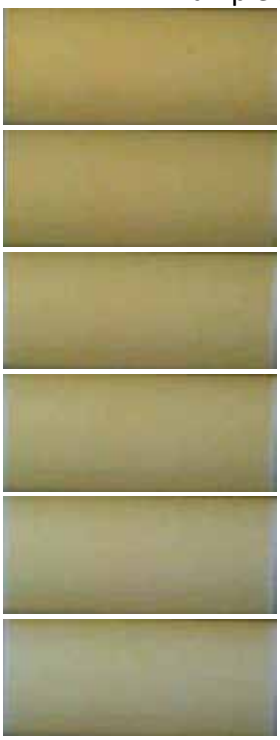
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

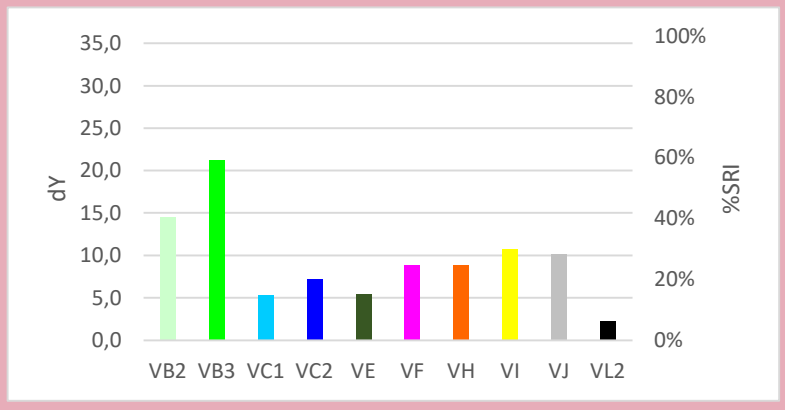
DM-22

Egg yolk, double soil load

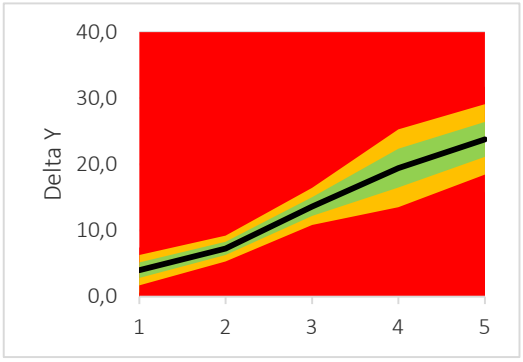
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-22	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-22	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-22	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-22	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-22	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



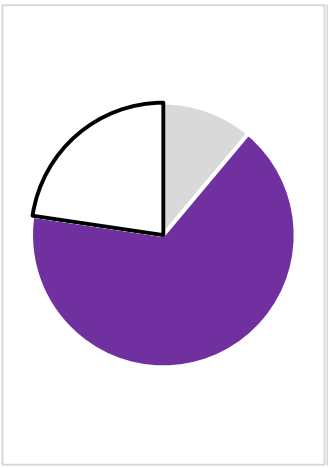
Quality Control

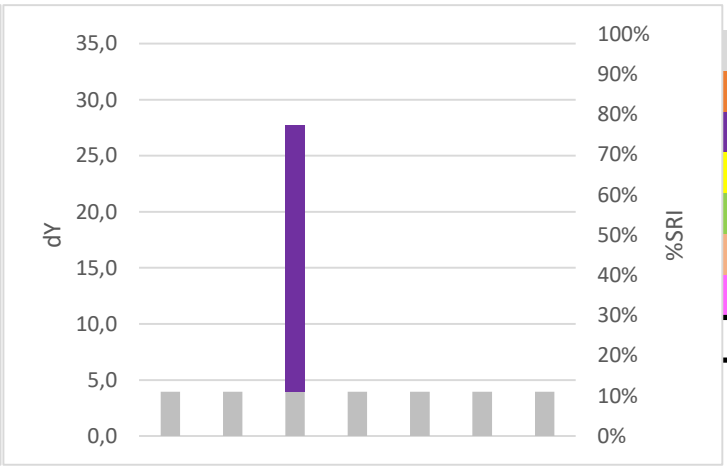


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

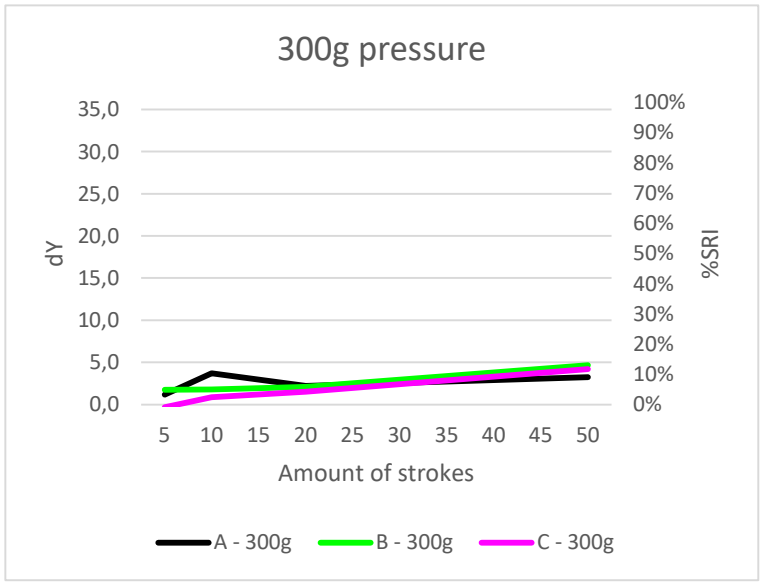
Professional cleaning detergent comparison

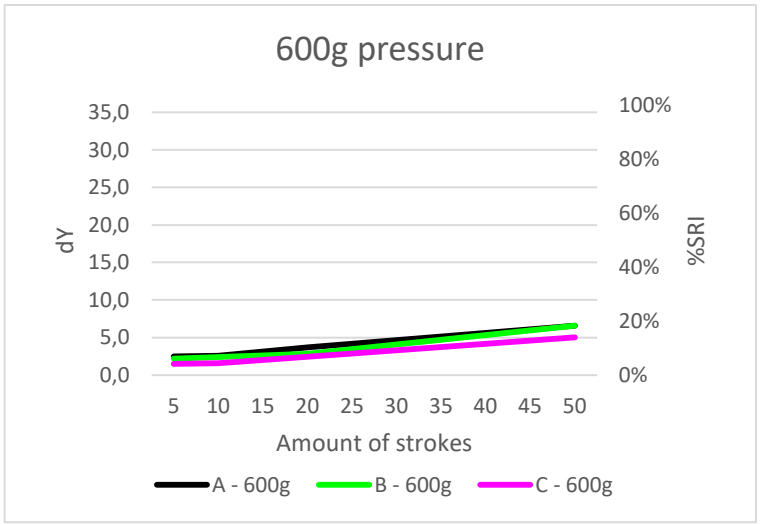
DM-22

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

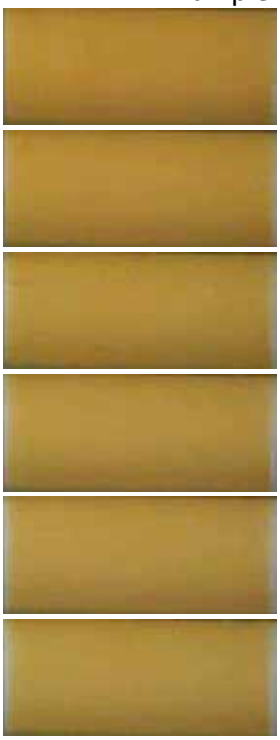
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

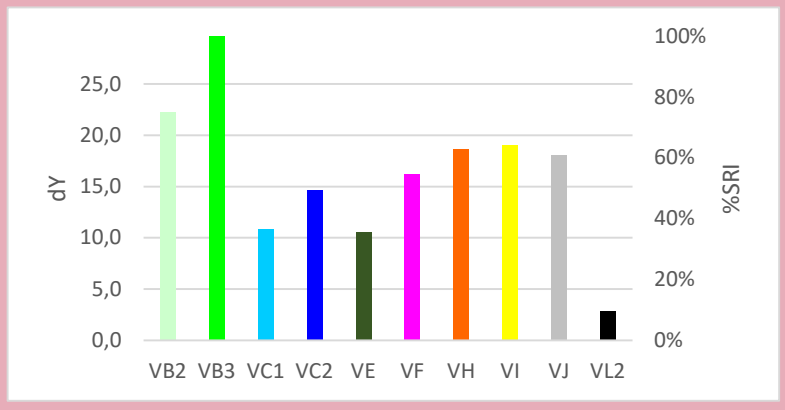
DM-23

Egg yolk, 1.5x soil load

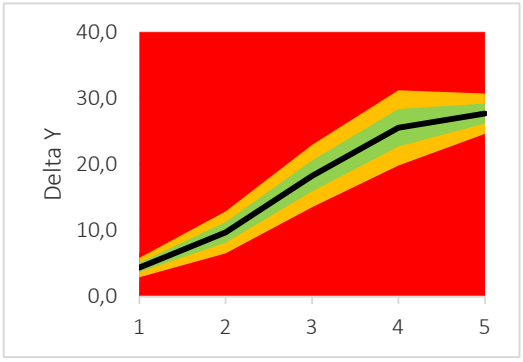
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-23	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-23	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-23	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-23	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-23	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

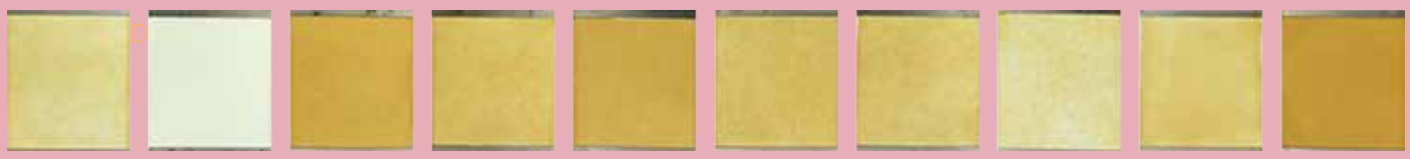
Autodish detergent comparison



Quality Control

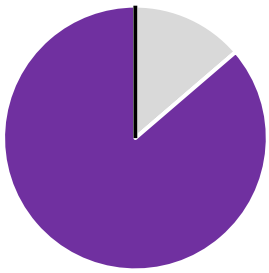


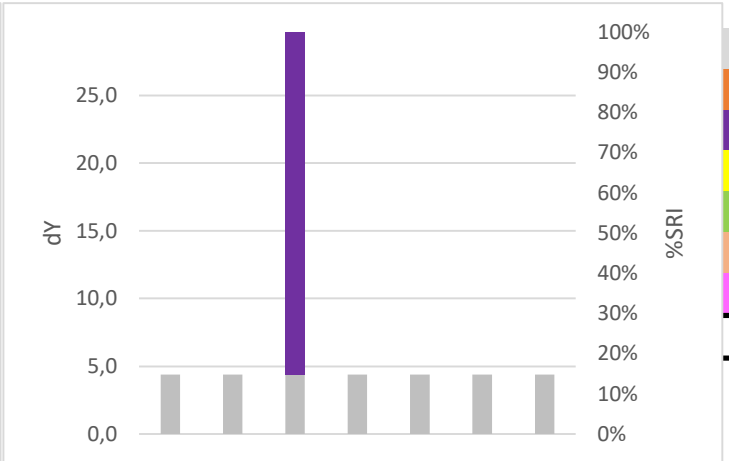
CFT-GSM D + Protease



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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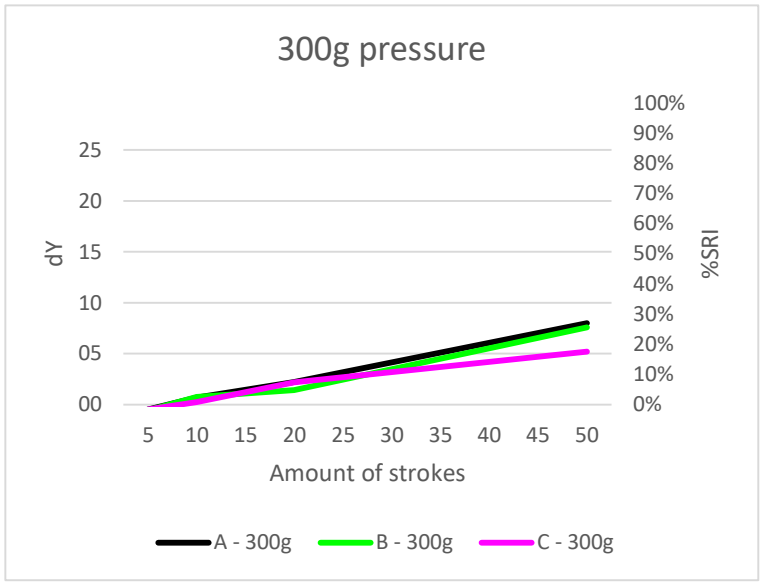
Professional cleaning detergent comparison

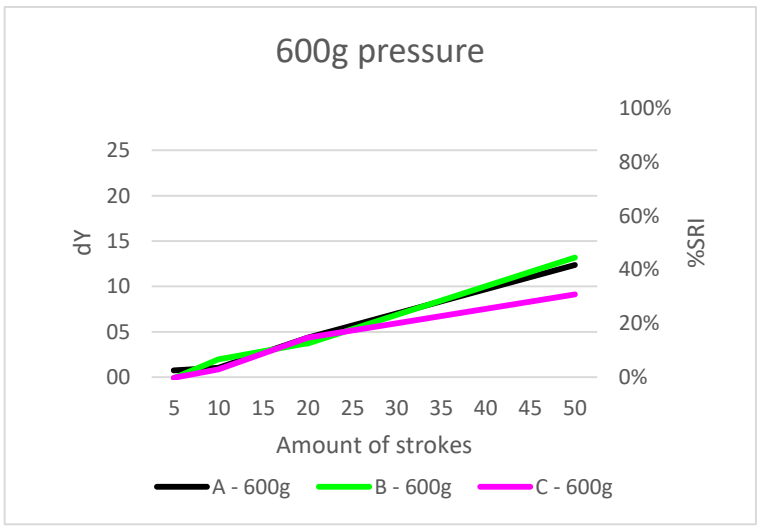
DM-23

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

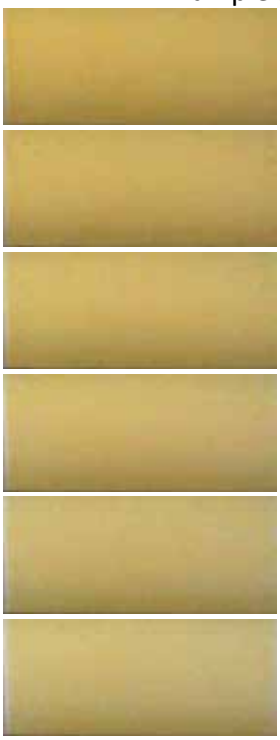
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

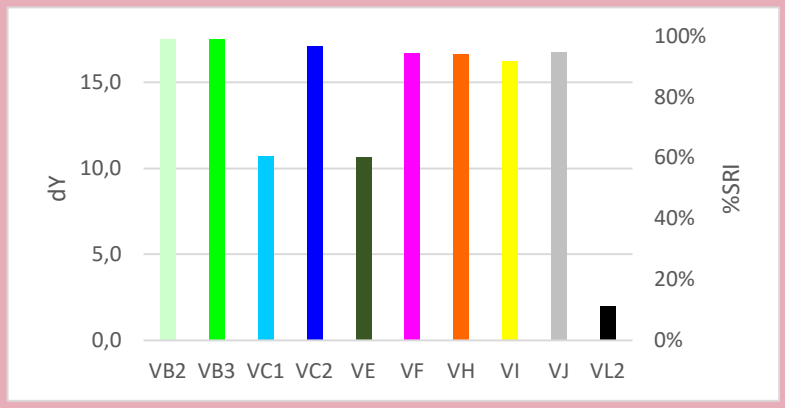
DM-24

Egg yolk, 0.75x soil load

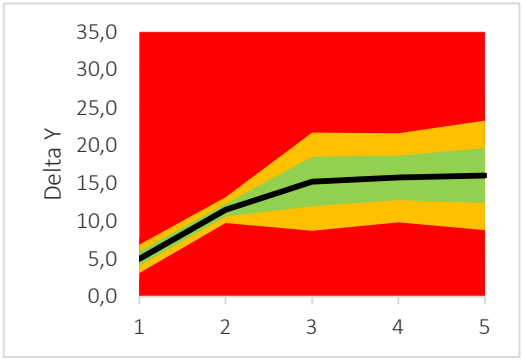
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-24	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-24	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



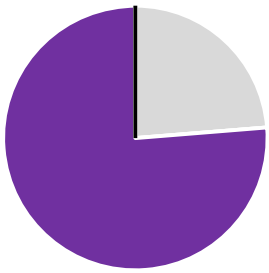
Quality Control

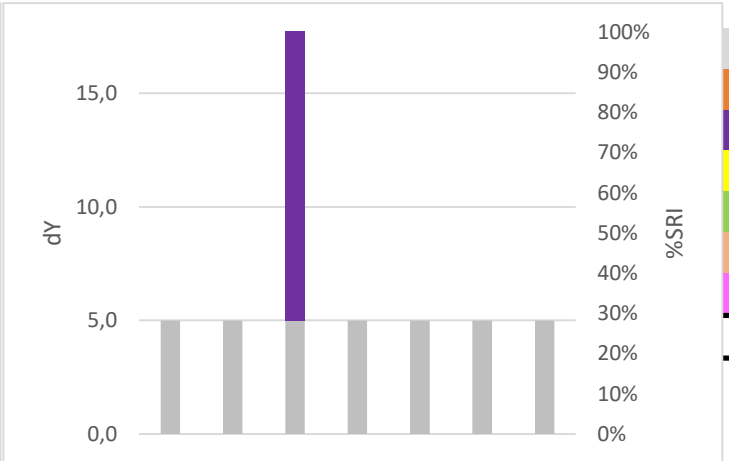


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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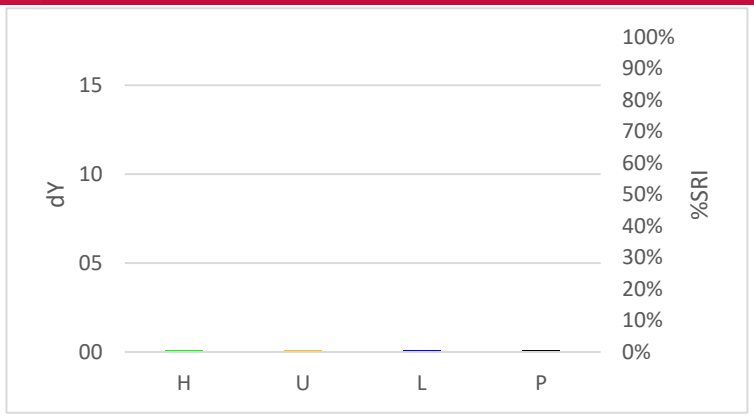
Professional cleaning detergent comparison

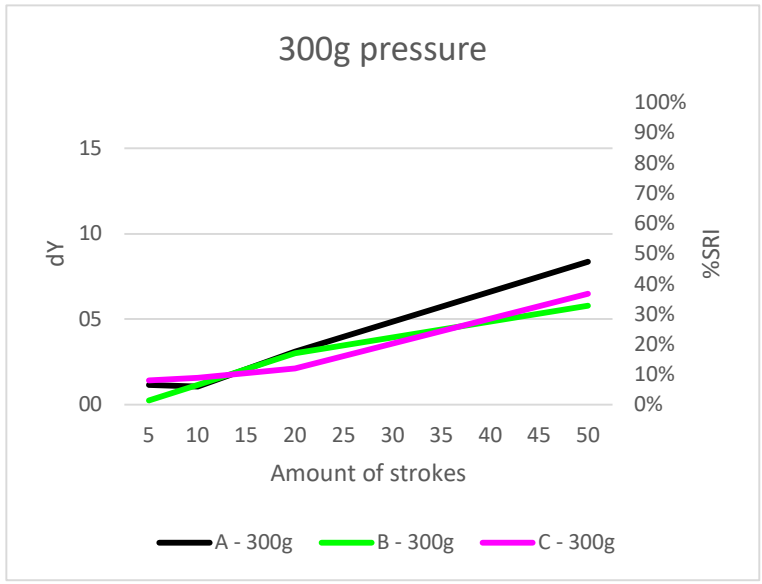


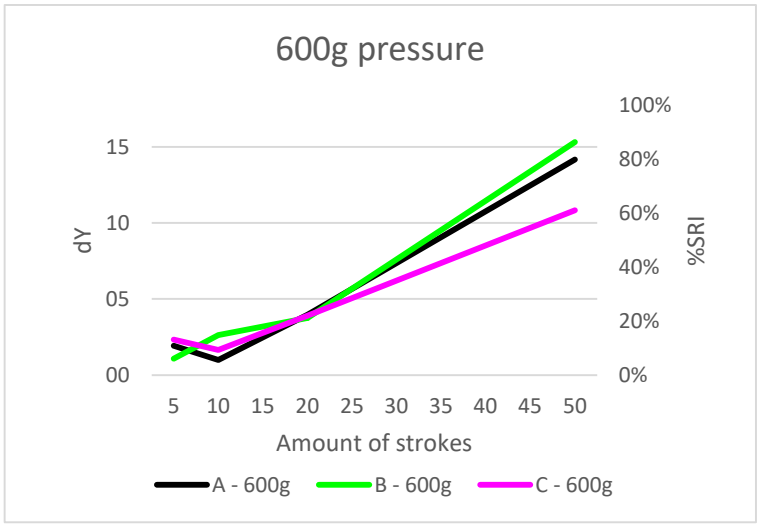
DM-24

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

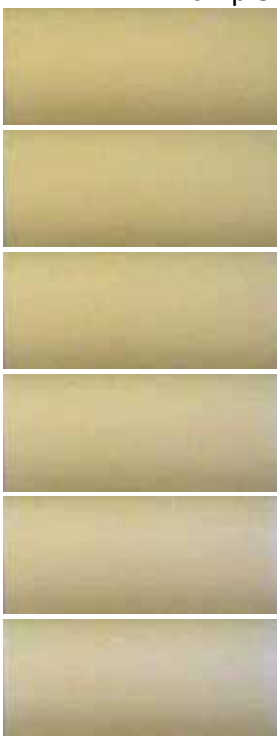
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

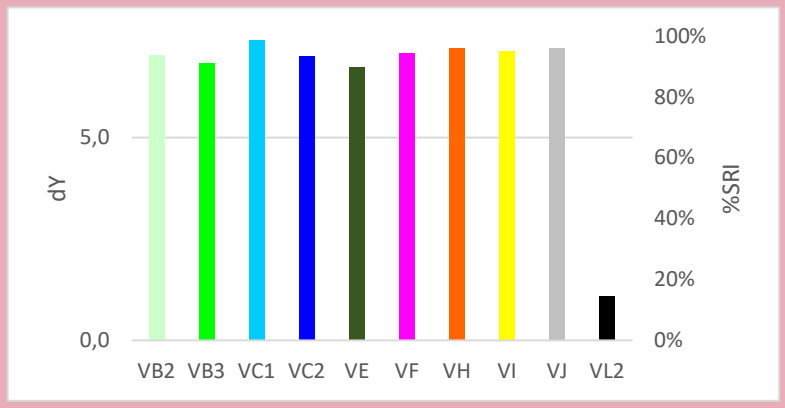
DM-25

Boiled egg yolk, based on IKW protocol

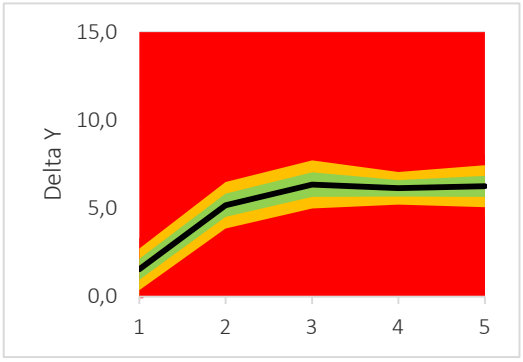
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-25	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-25	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



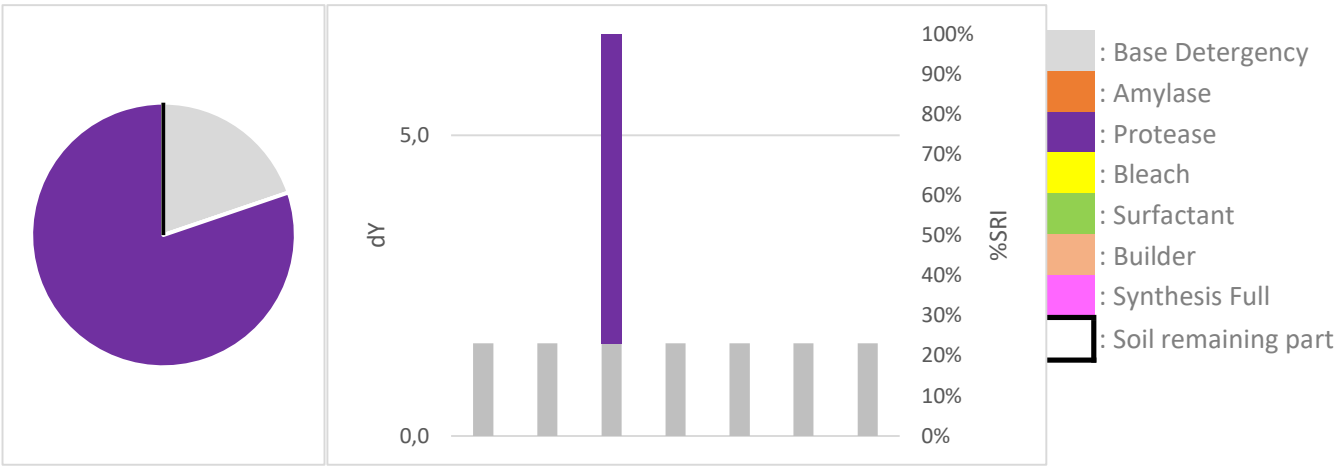
Quality Control



CFT-GSM D + Protease

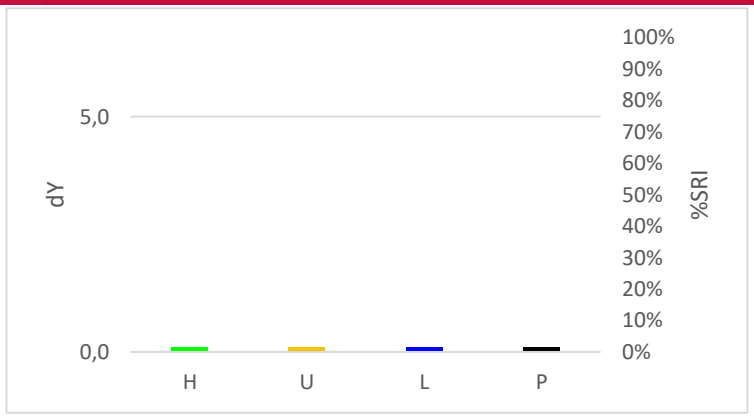
VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison

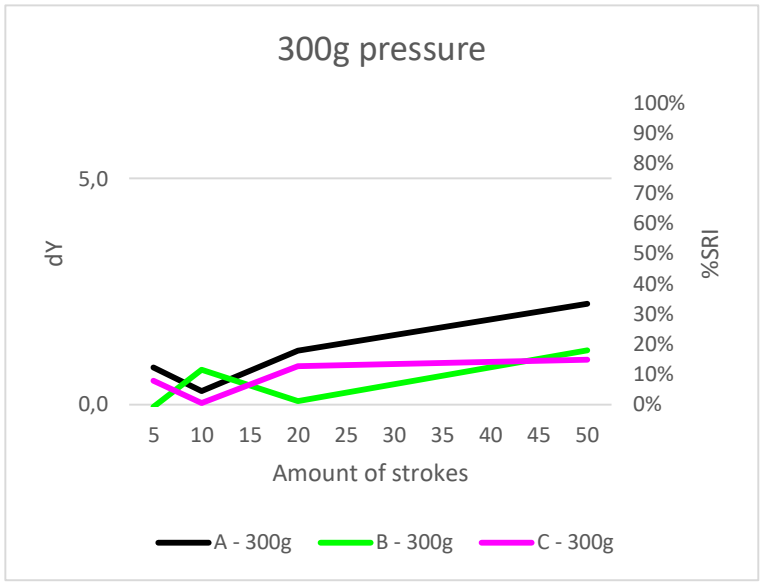


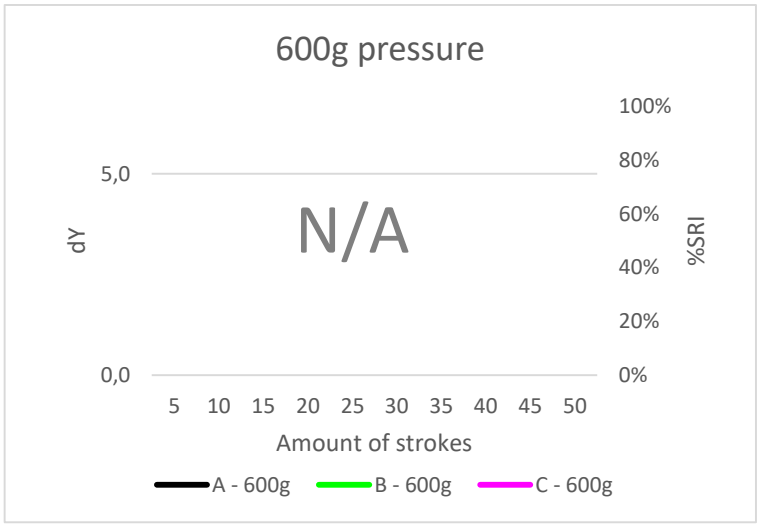
DM-25

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

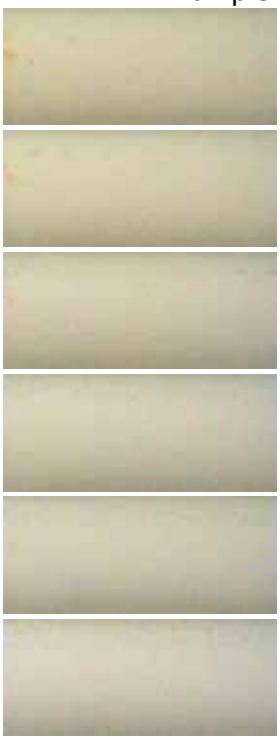
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

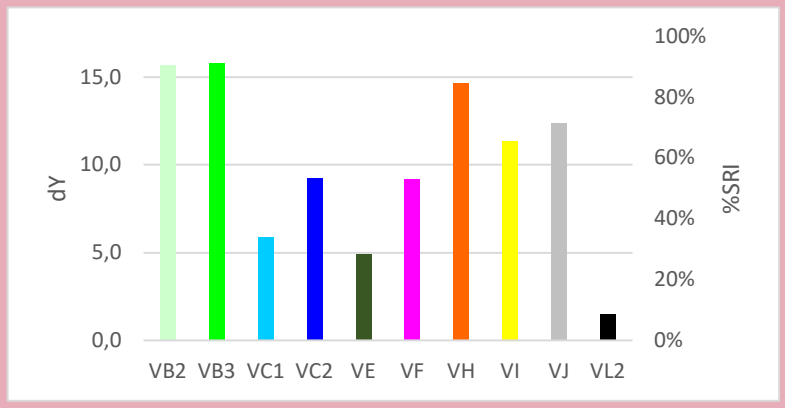
DM-26

Full egg

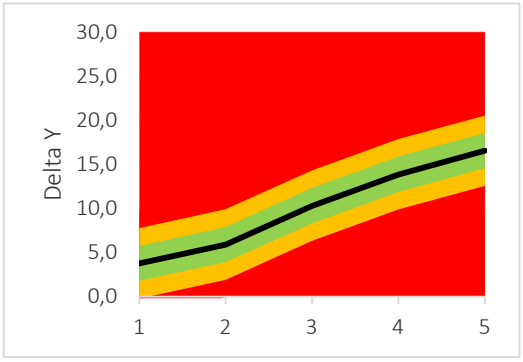
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-26	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-26	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



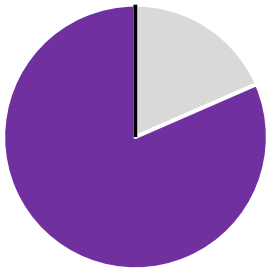
Quality Control

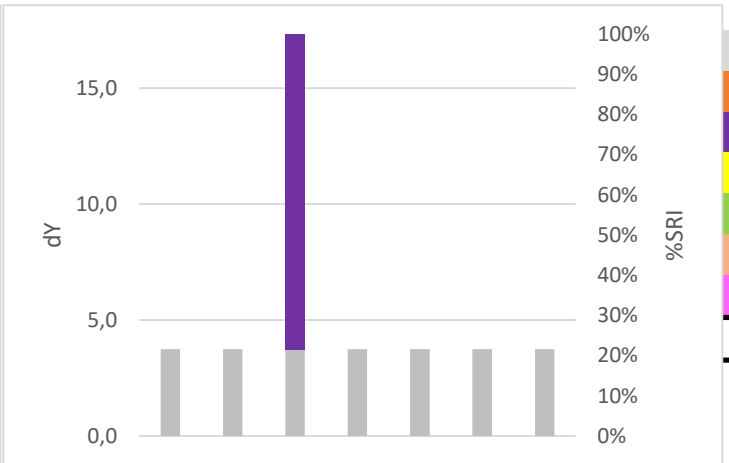


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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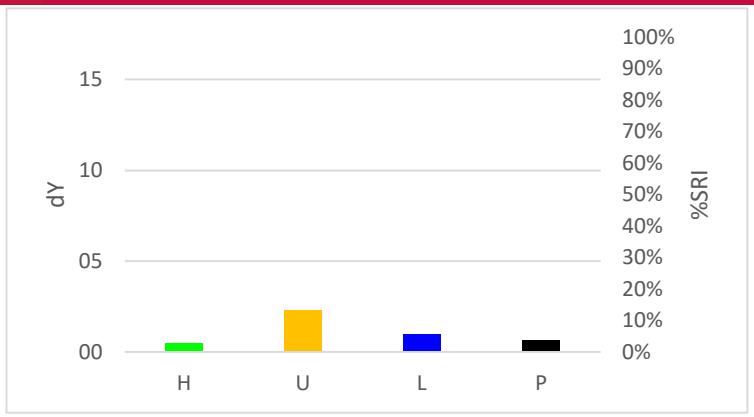
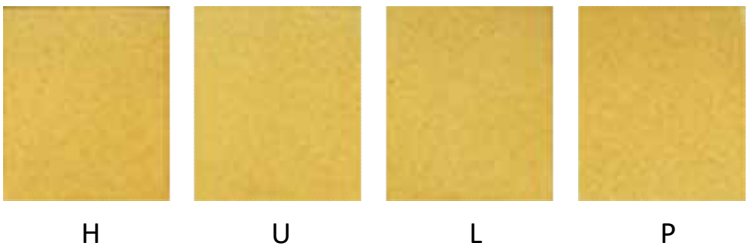
Professional cleaning detergent comparison

DM-26

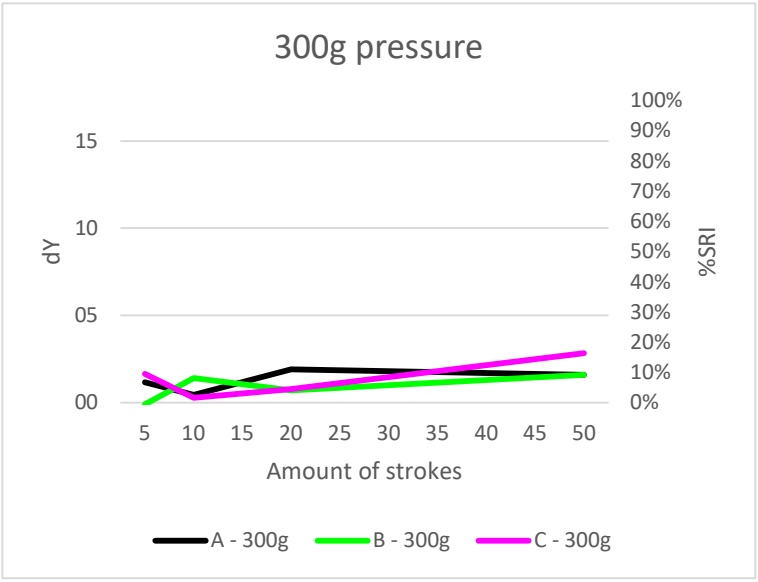


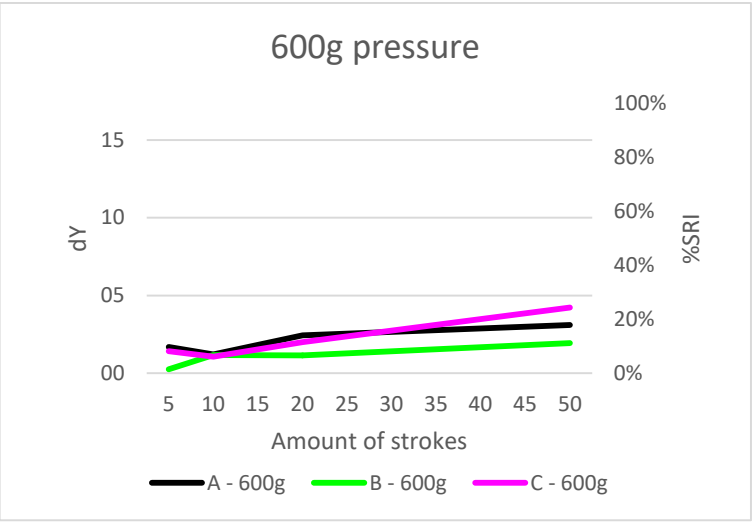


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

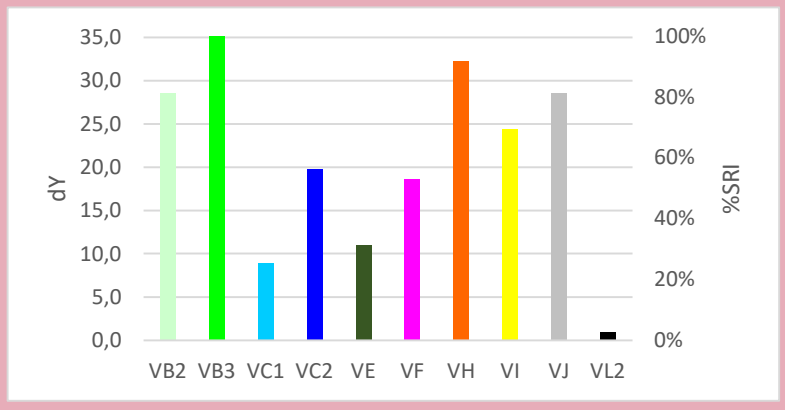
DM-31

Egg yolk with milk

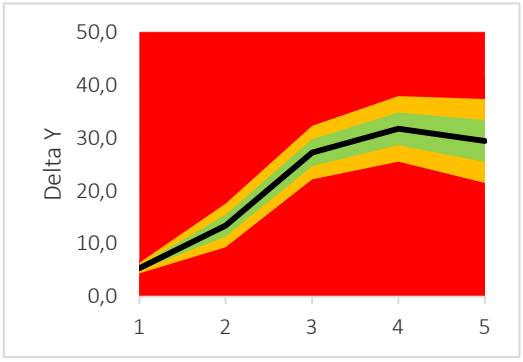
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-31	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-31	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-31	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-31	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-31	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



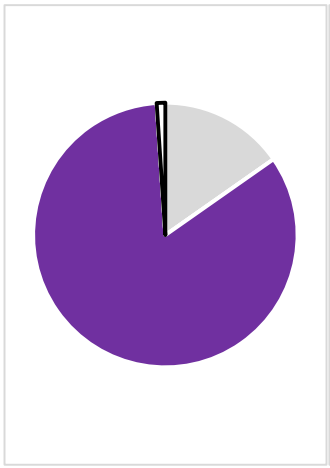
Quality Control

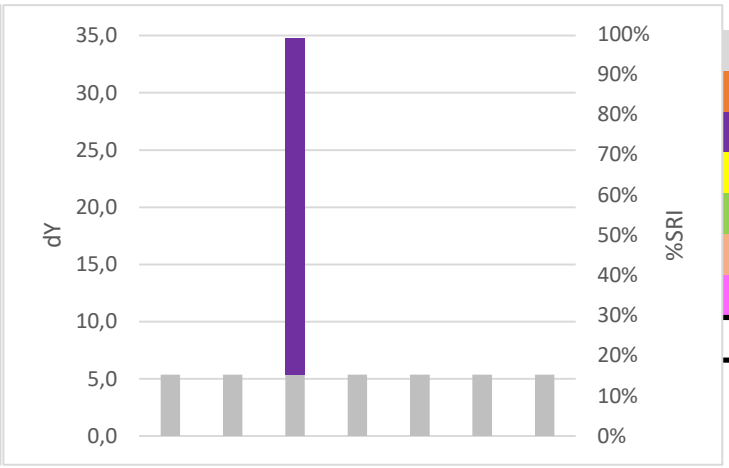


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

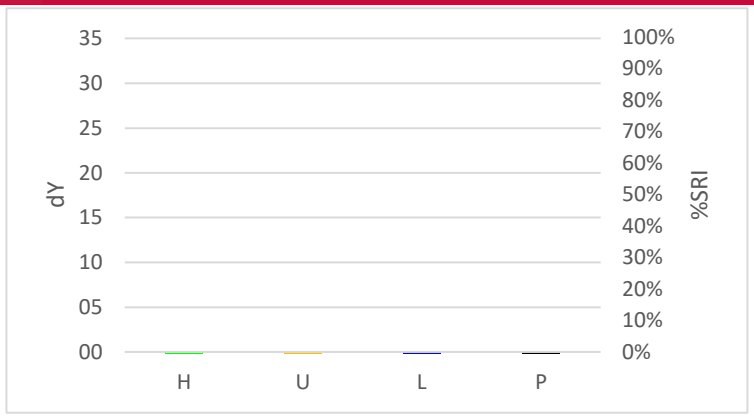




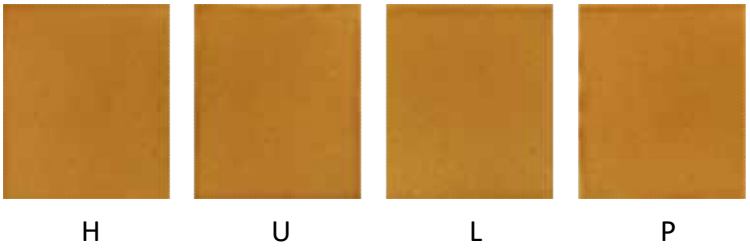
: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison

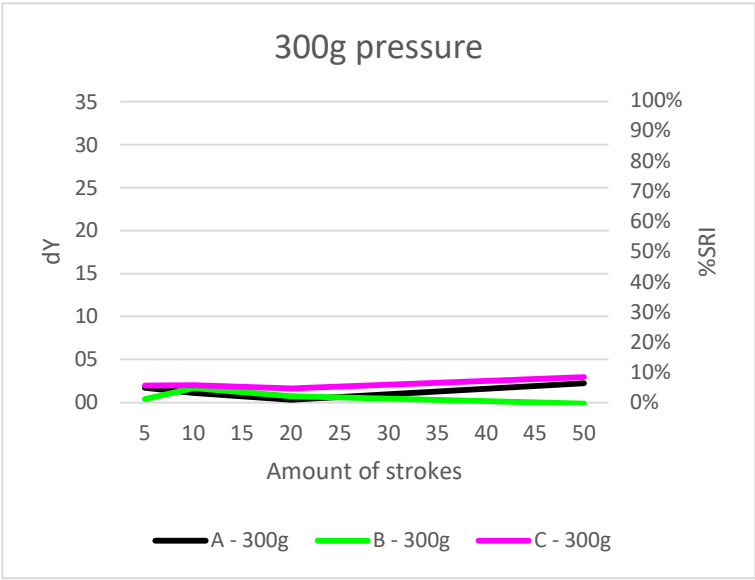


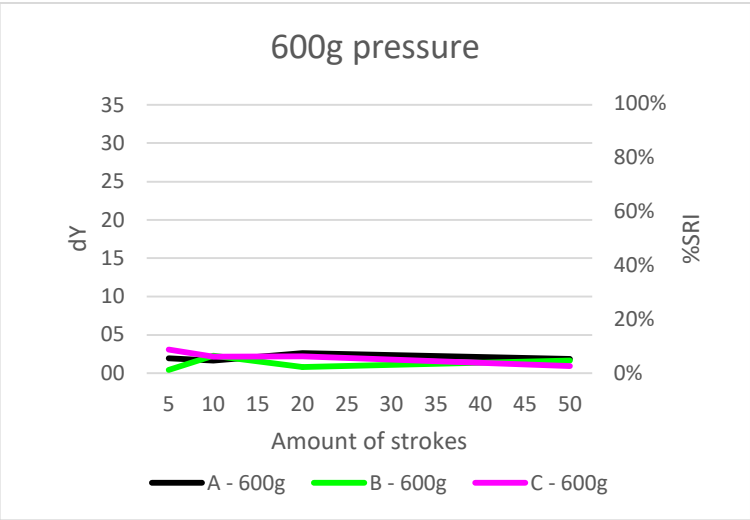
DM-31



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

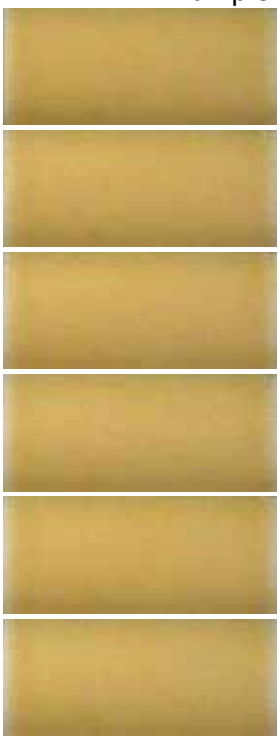
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

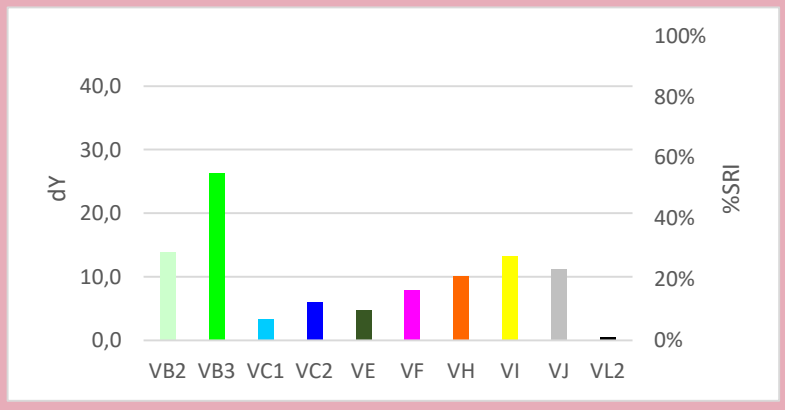
DM-32

Egg yolk with milk, double soil load

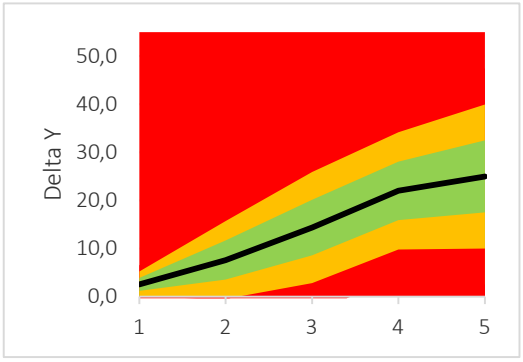
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★☆☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-32	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-32	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-32	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-32	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-32	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



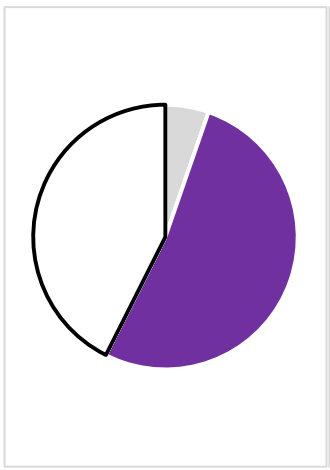
Quality Control

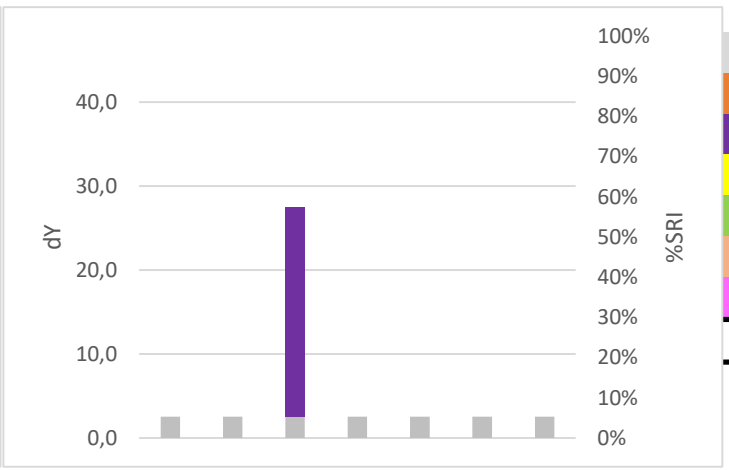


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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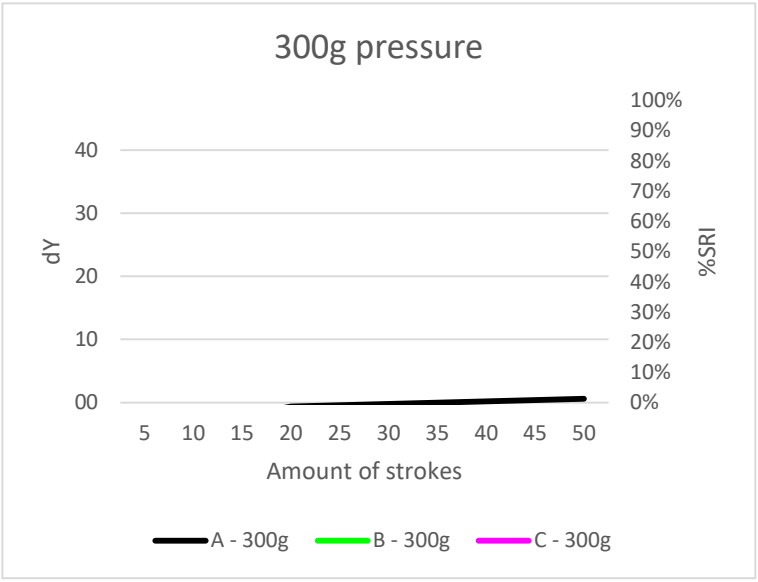
Professional cleaning detergent comparison

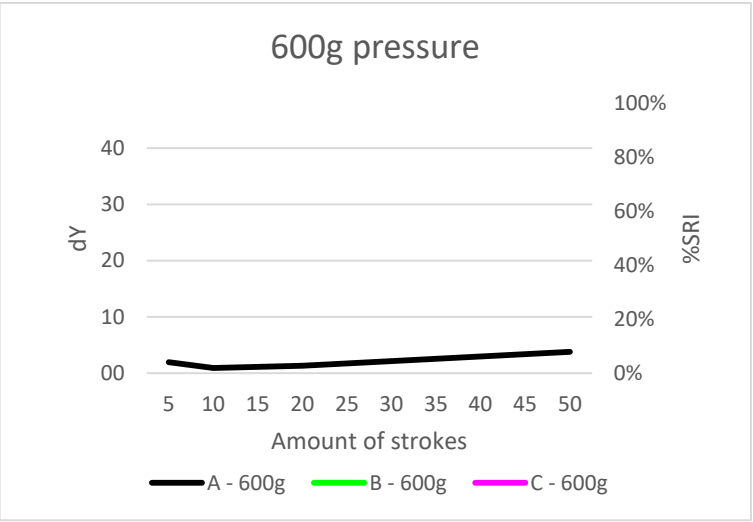
DM-32

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★★★

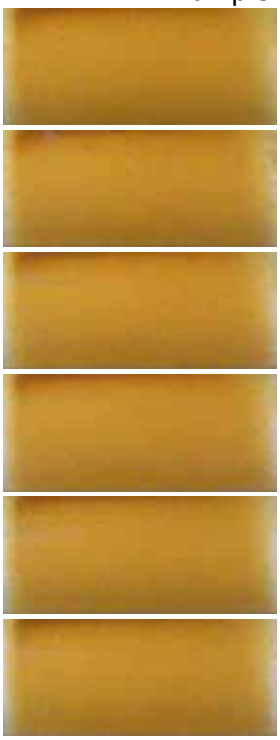
Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

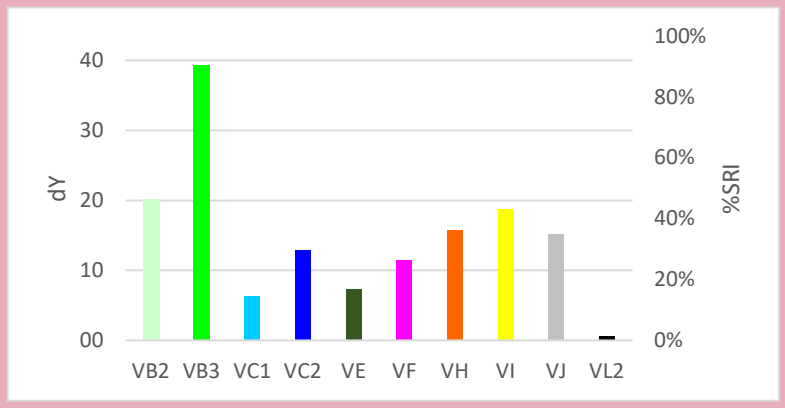
DM-33

Egg yolk with milk, 1.5x soil load

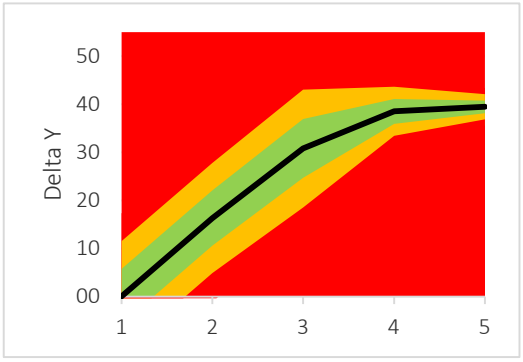
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-33	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-33	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-33	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-33	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DP-33	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

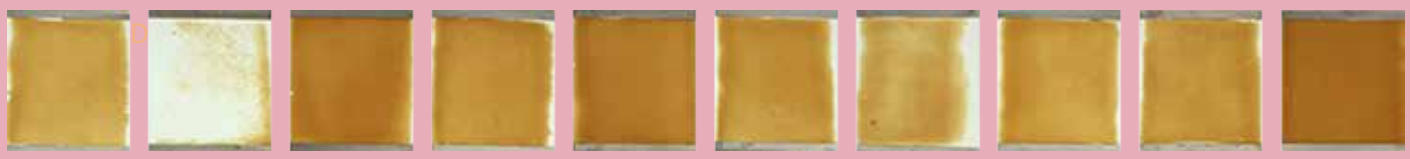
Autodish detergent comparison



Quality Control

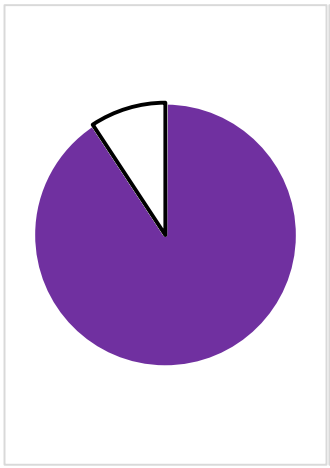


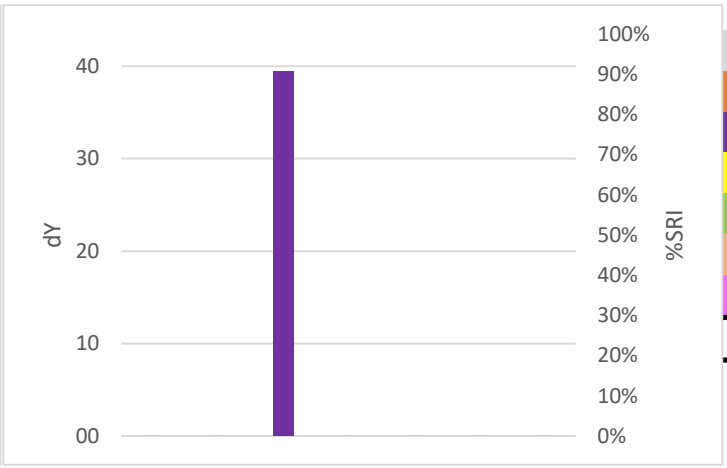
CFT-GSM D + Protease



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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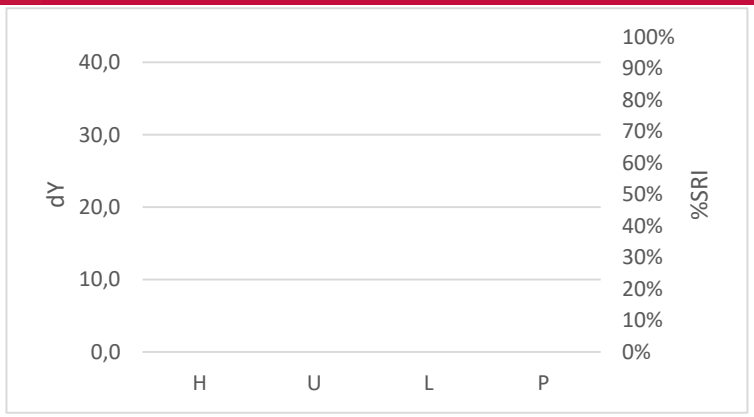
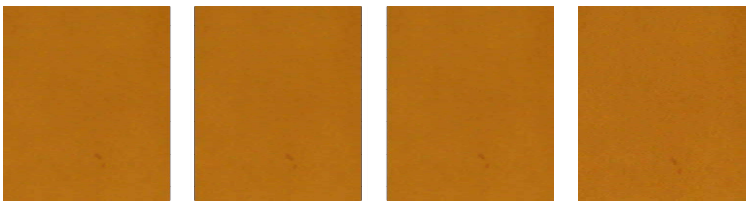
Professional cleaning detergent comparison



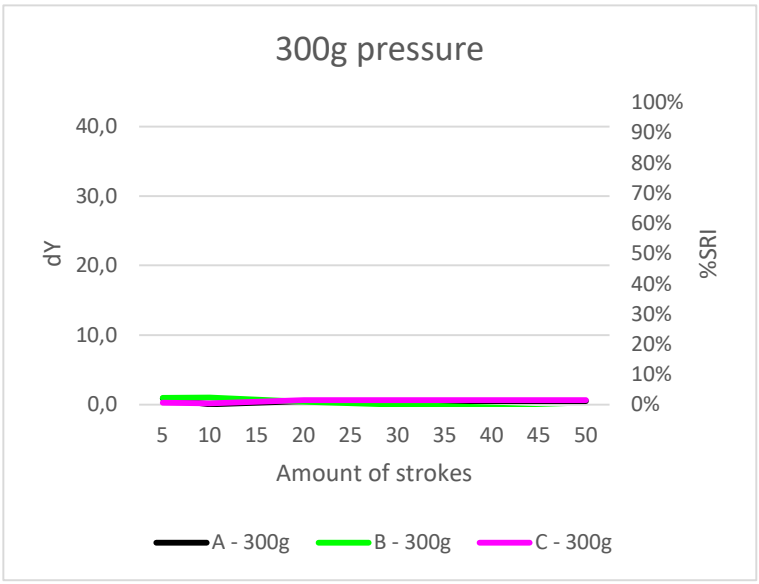


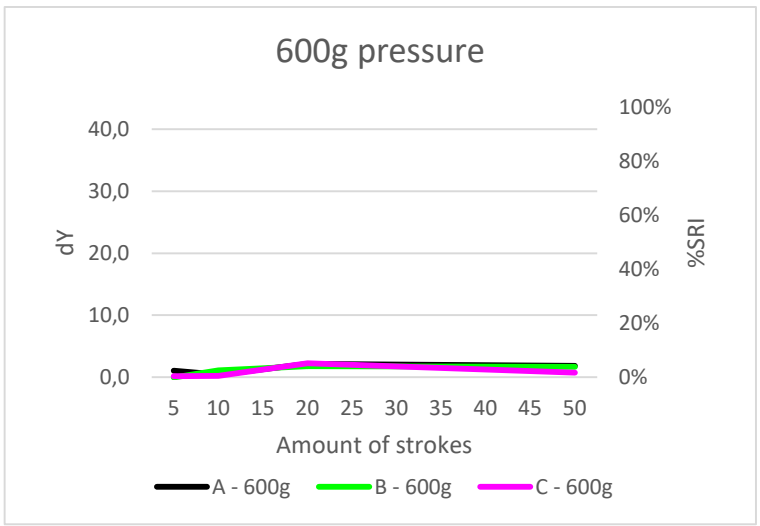
H U L P

DM-33

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

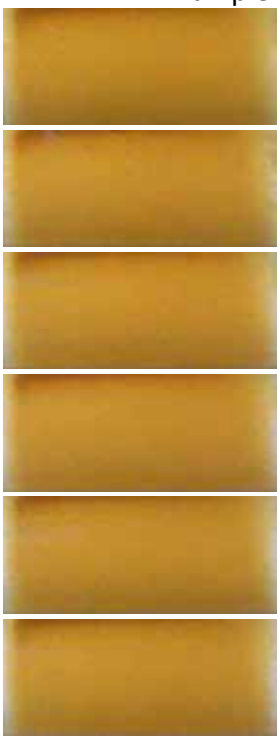
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

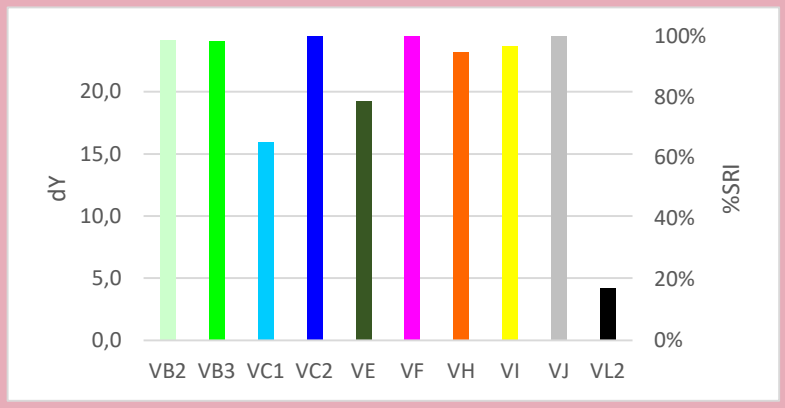
DM-34

Egg yolk with milk, 0.75x soil load

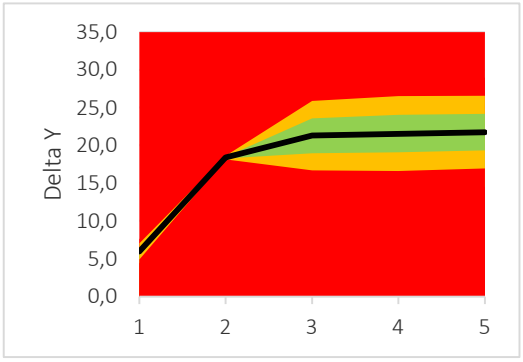
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-34	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-34	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



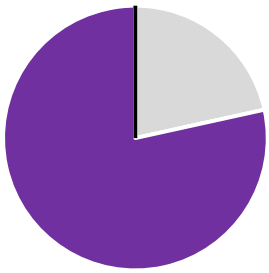
Quality Control

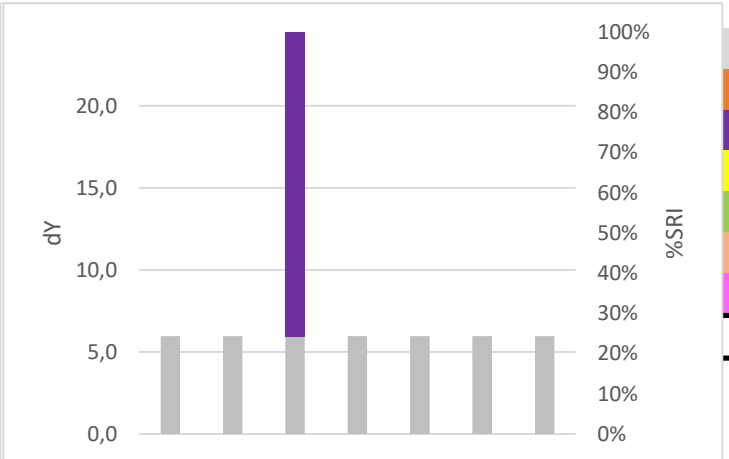


CFT-GSM D + Protease

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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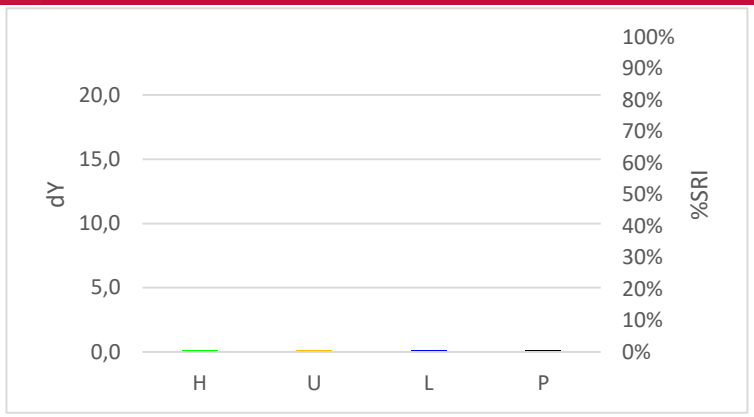
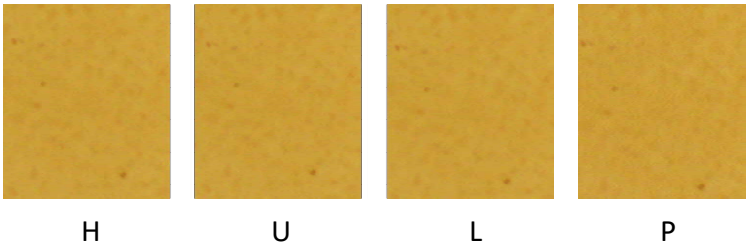
Professional cleaning detergent comparison

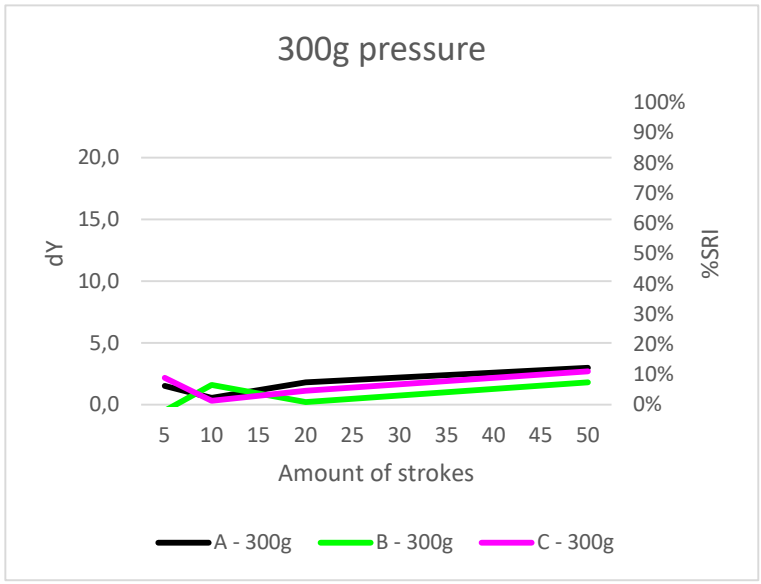


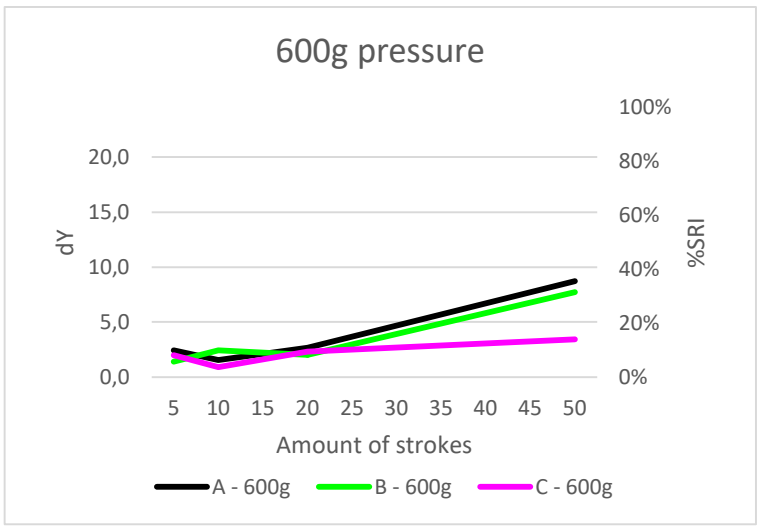
DM-34



Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

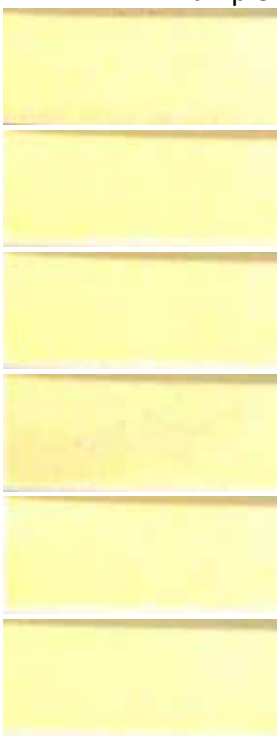
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

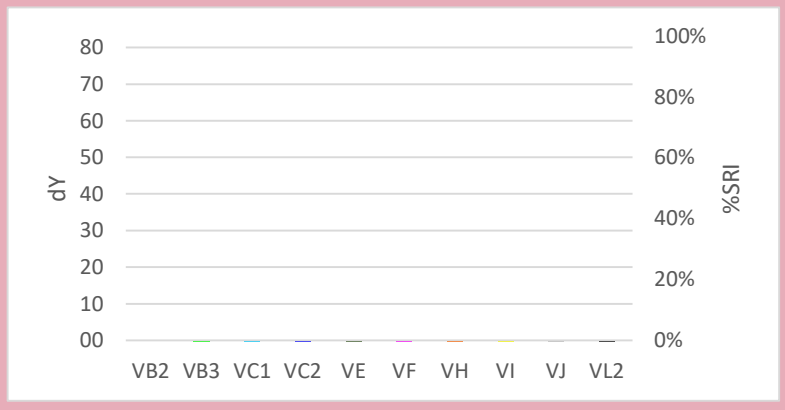
DM-40X

Olive oil with pigment 10 pcs (2 packs of 5 pcs)

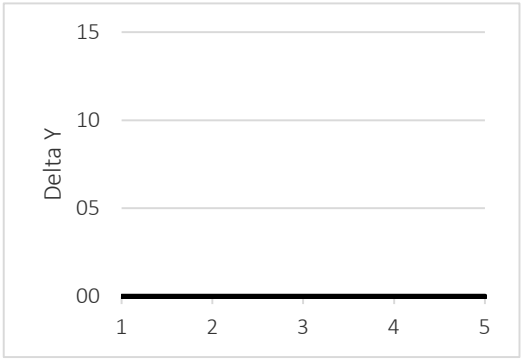
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-40X	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-40X	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



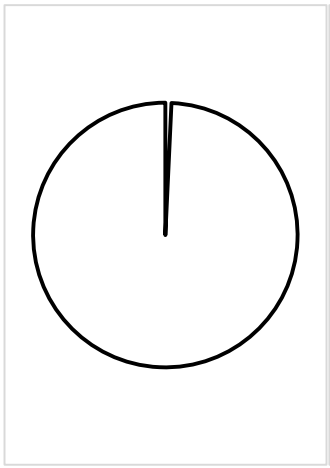
Quality Control

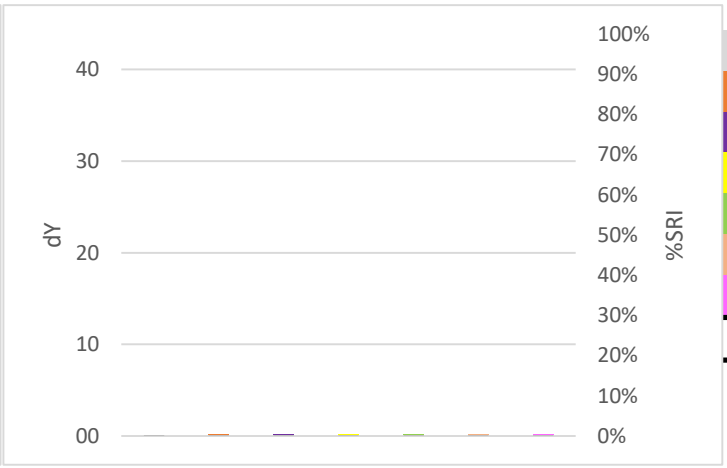


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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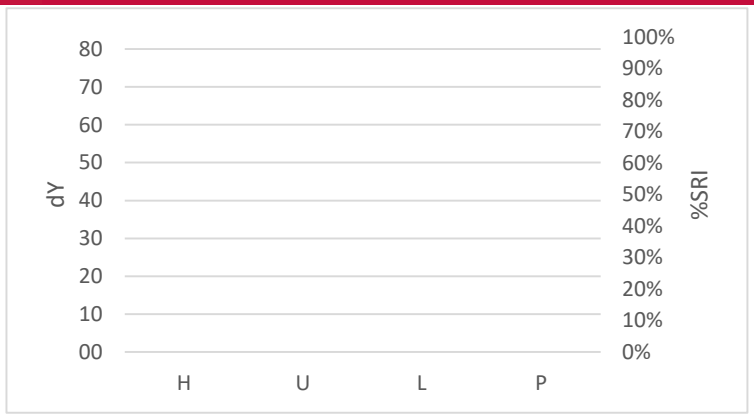
Professional cleaning detergent comparison

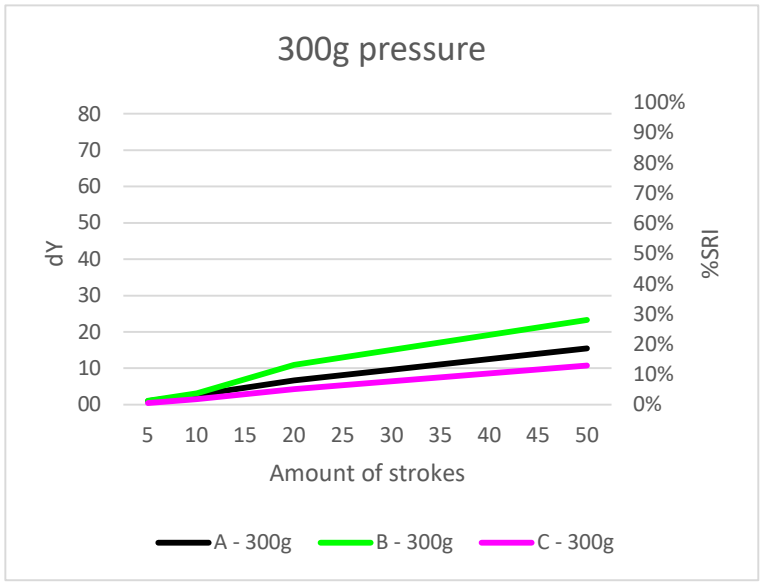


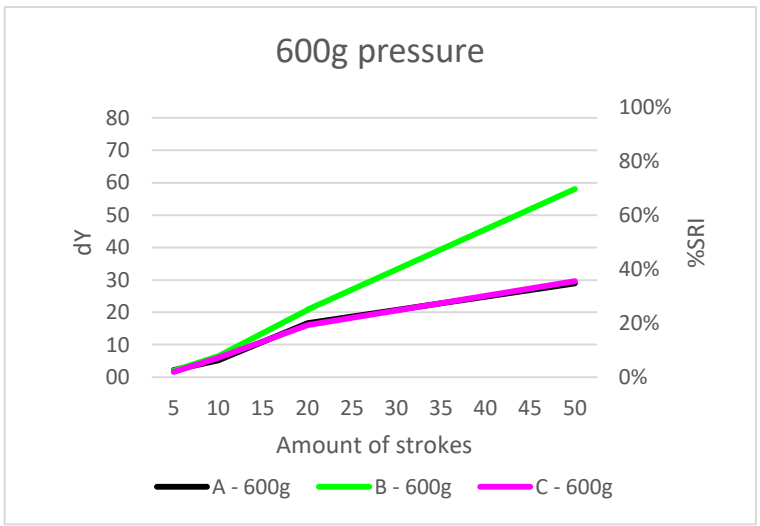
DM-40X

H U L P

Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

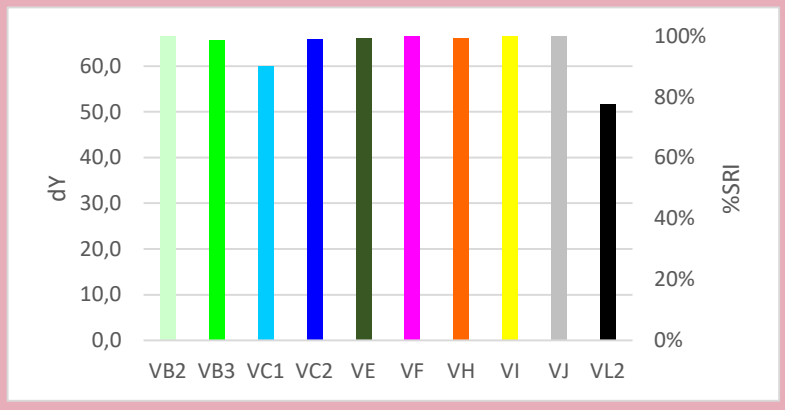
DM-42

Blueberry yoghurt

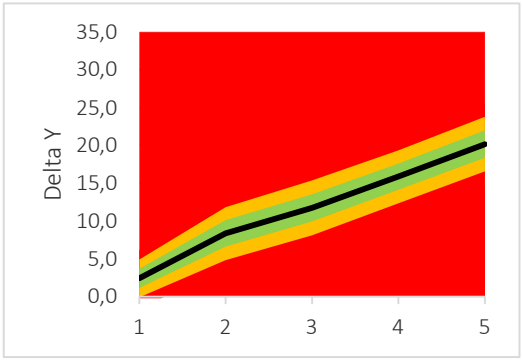
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-42	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-42	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DP-42	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



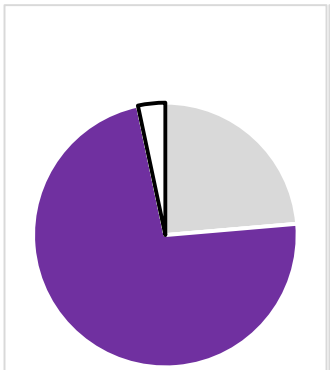
Quality Control

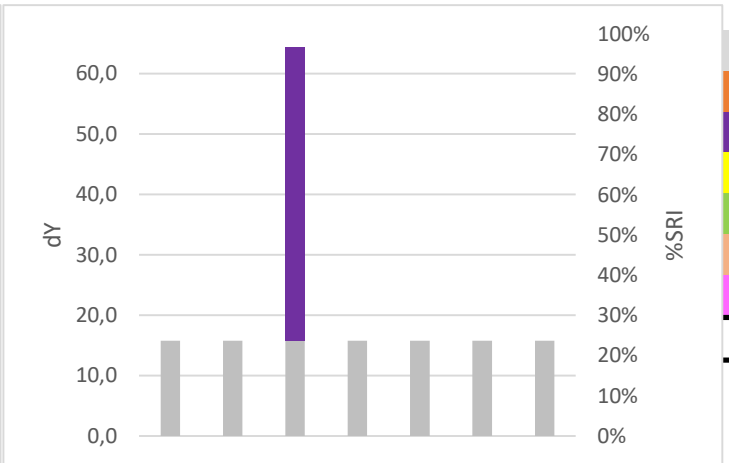


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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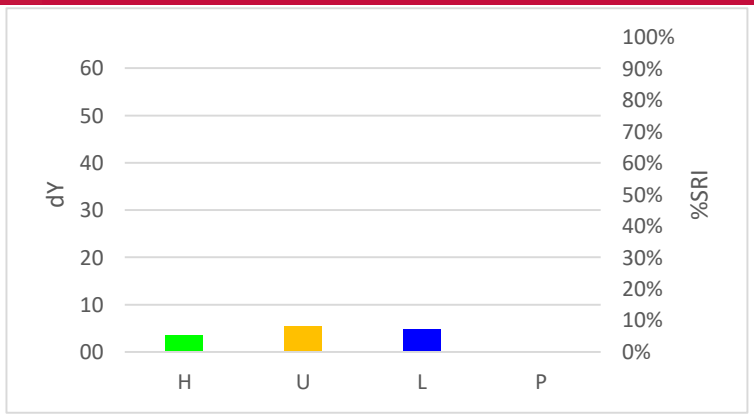
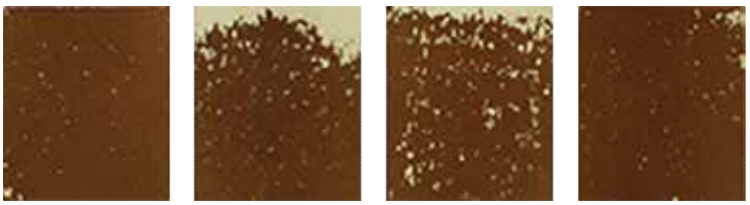
Professional cleaning detergent comparison

DM-42

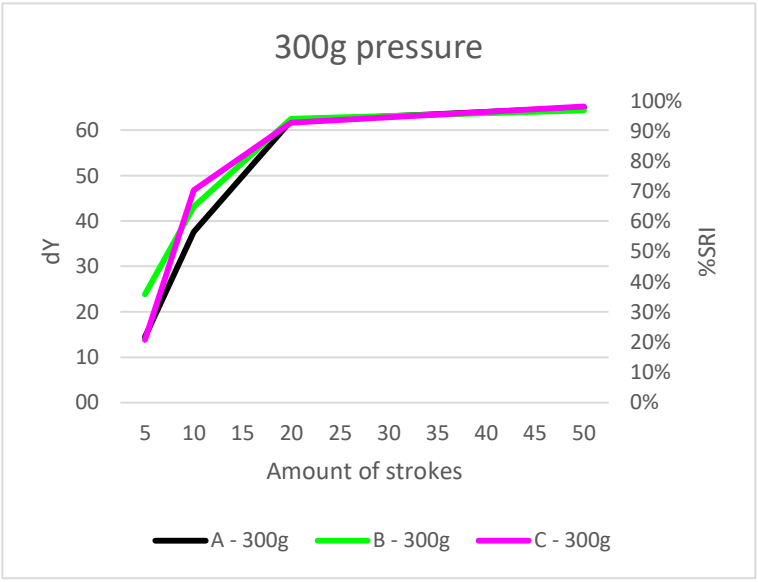


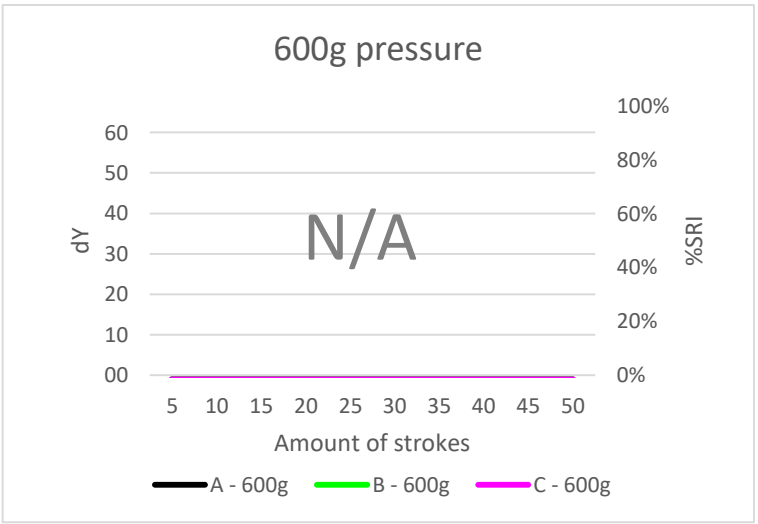


H U L P

Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆

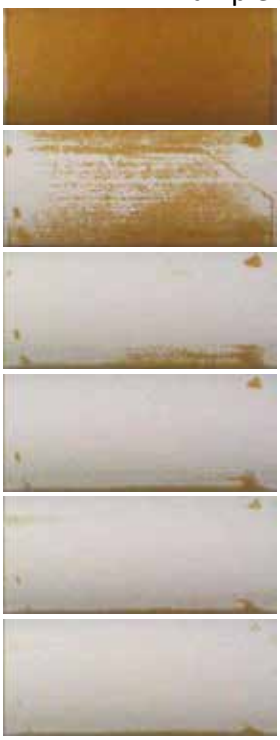
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

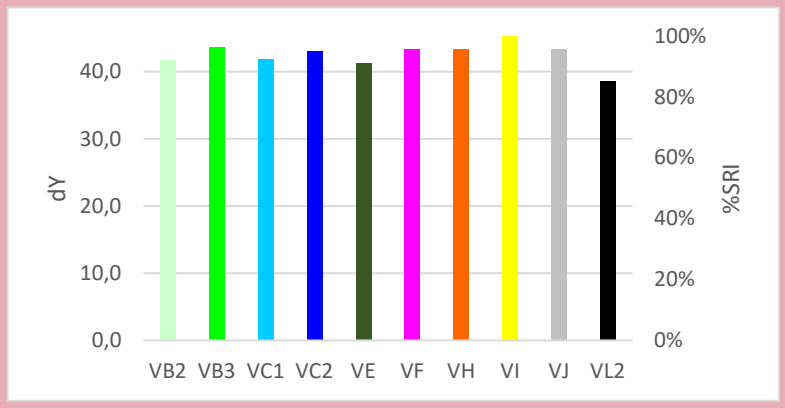
DM-44

IKW hand dish soil
Normal

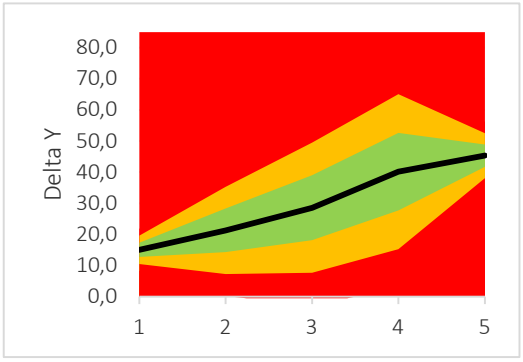
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-44	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-44	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



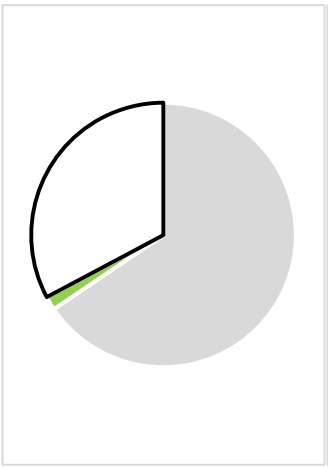
Quality Control

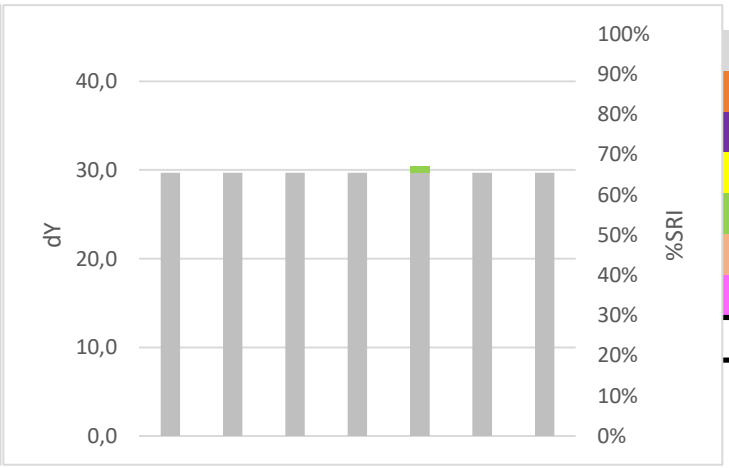


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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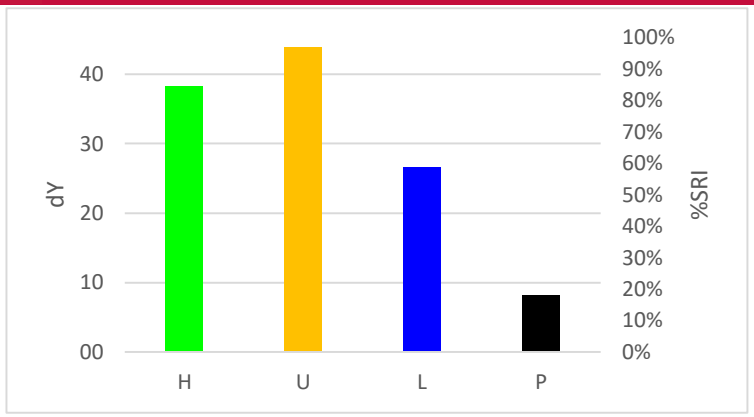
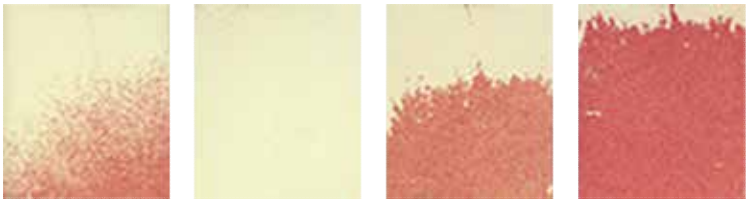
Professional cleaning detergent comparison

DM-44

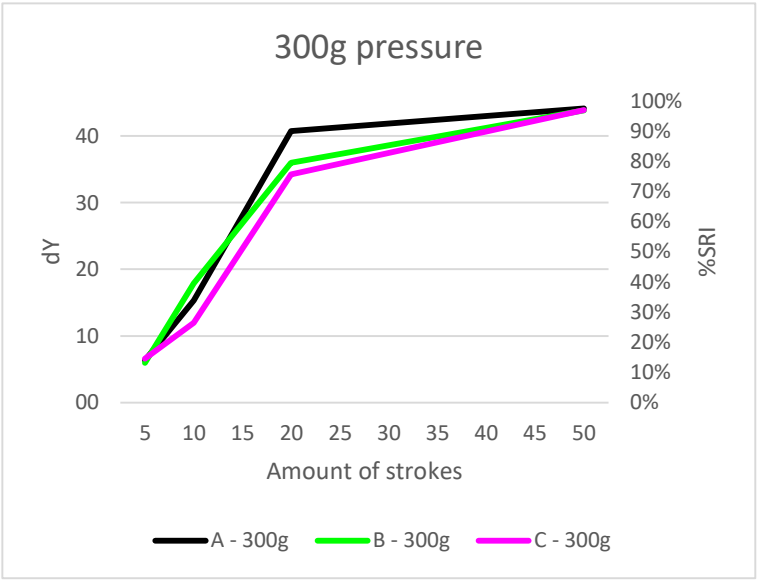


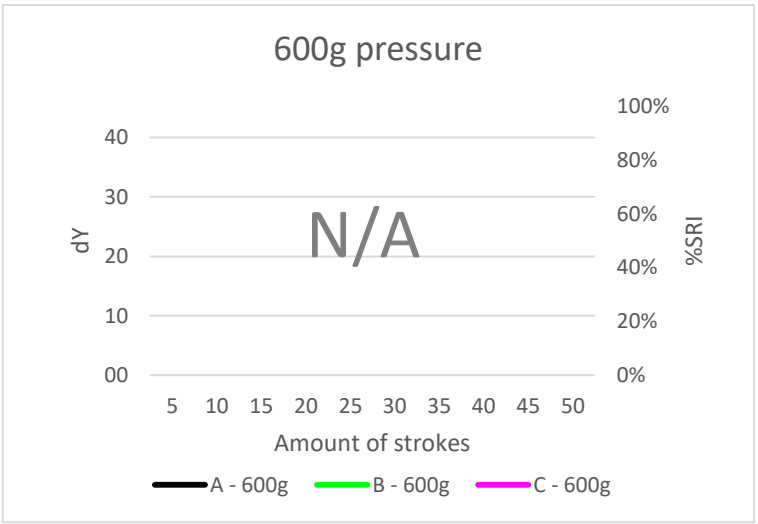


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆

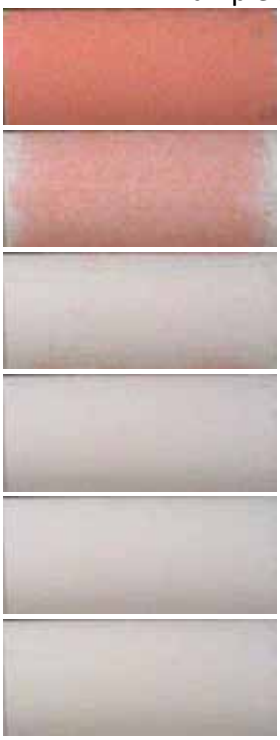
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

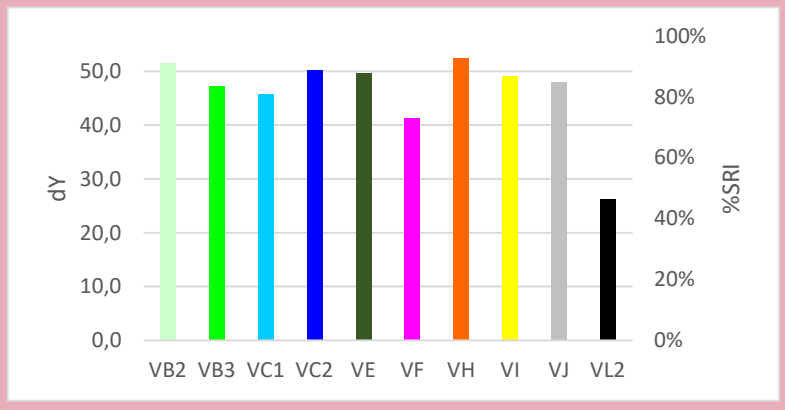
DM-45

Fat mix with food colourant

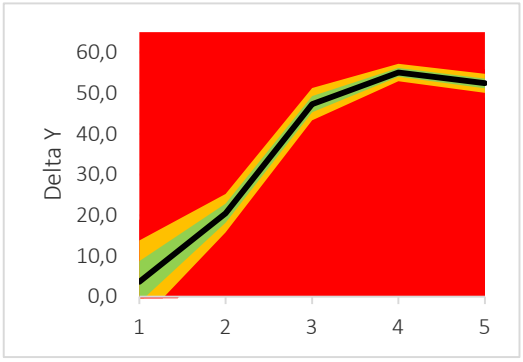
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★☆☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-45	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-45	Technical Porcelain (DT H)	120 x 100 x 1	87,2

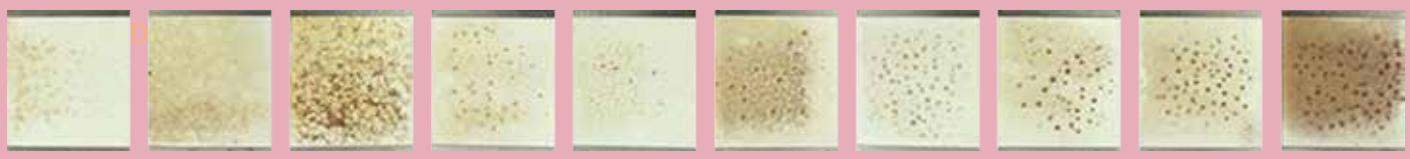
Autodish detergent comparison



Quality Control



CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

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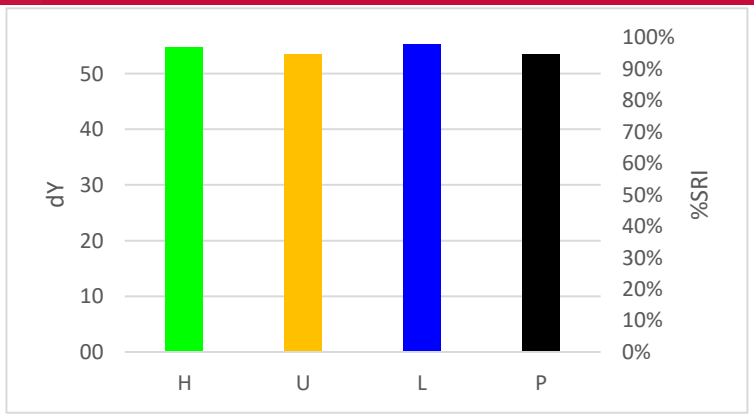
Professional cleaning detergent comparison

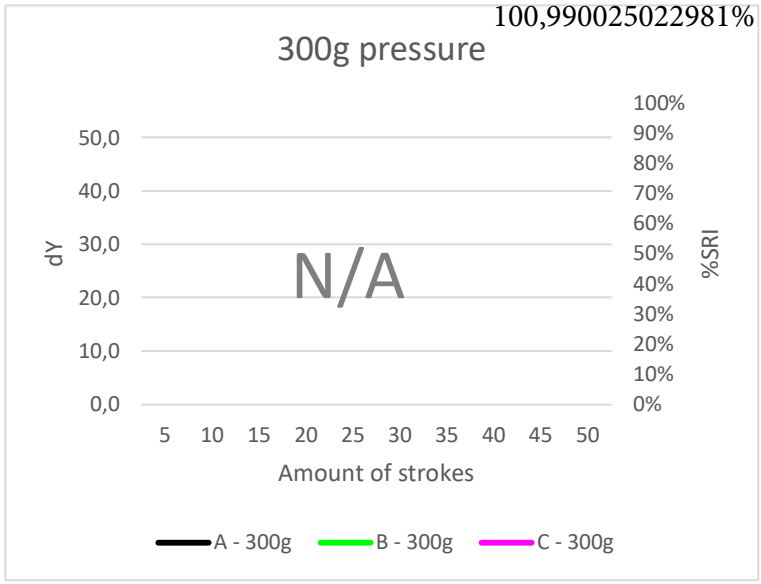
DM-45

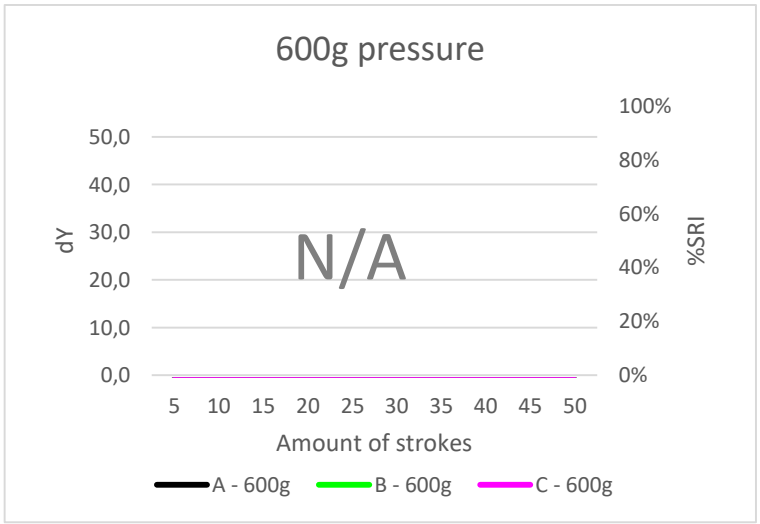


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★☆☆

Hand dishwash detergent comparison





Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ☆☆☆☆☆

Example soil removal pictures

N/A	1 stroke
N/A	10 strokes
N/A	20 strokes
N/A	30 strokes
N/A	40 strokes
N/A	50 strokes

Recommended TQC testing conditions

Amount of cycles:	N/A
Amount of pressure:	N/A
Speed cycles/min:	N/A
Length in mm:	N/A
Utensil:	N/A
Application method:	N/A

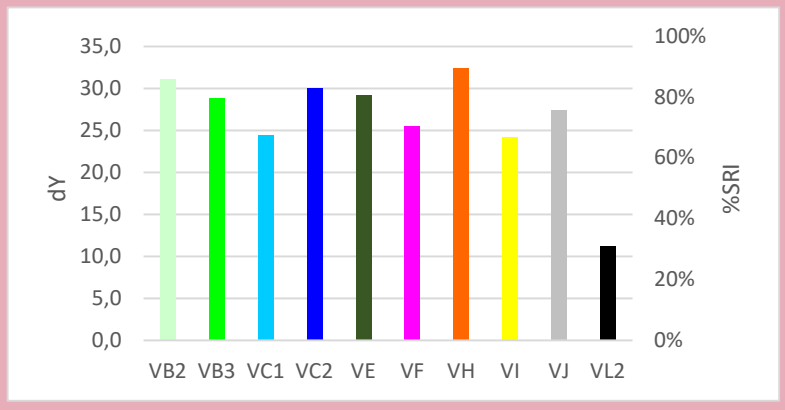
DM-46

Gravy

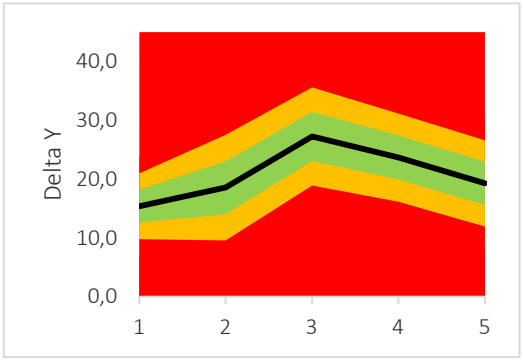
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★☆☆☆☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-46	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-46	Technical Porcelain (DT H)	120 x 100 x 1	87,2

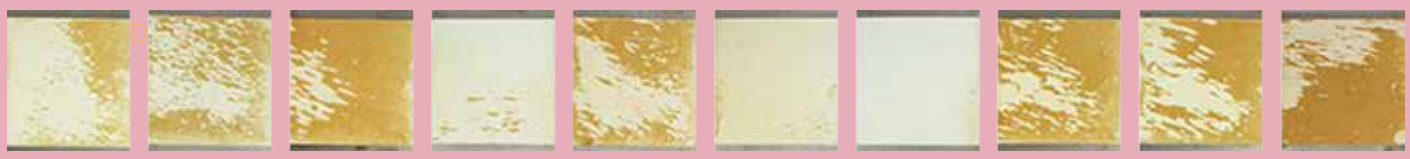
Autodish detergent comparison



Quality Control

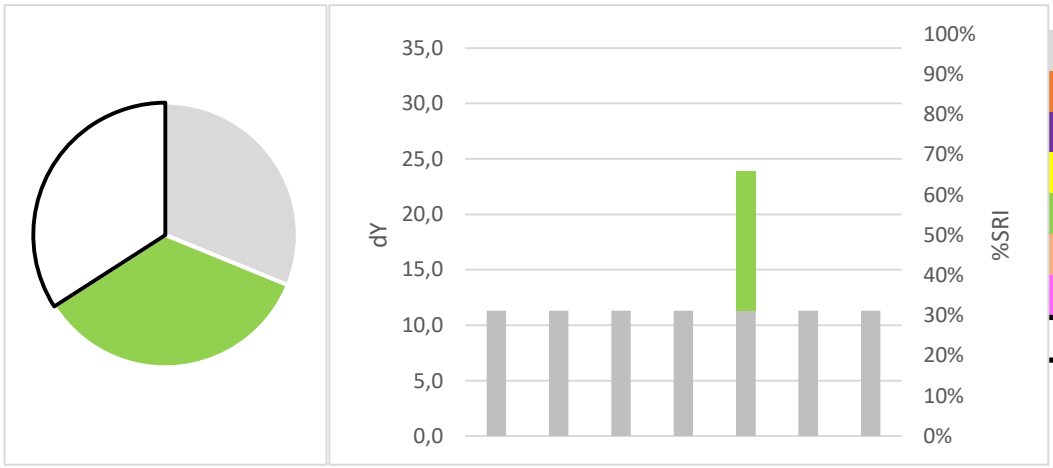


CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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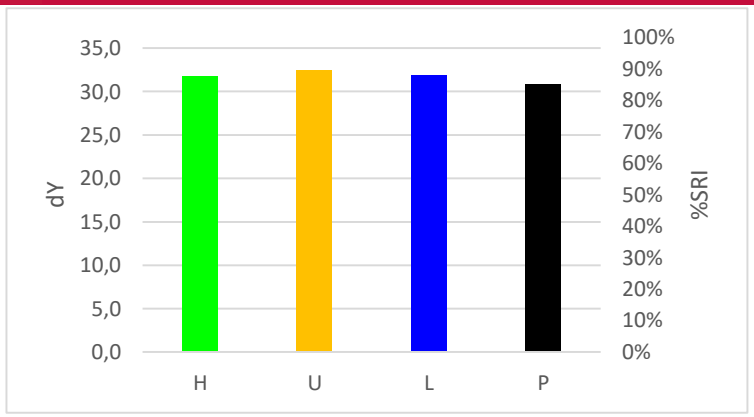
Professional cleaning detergent comparison

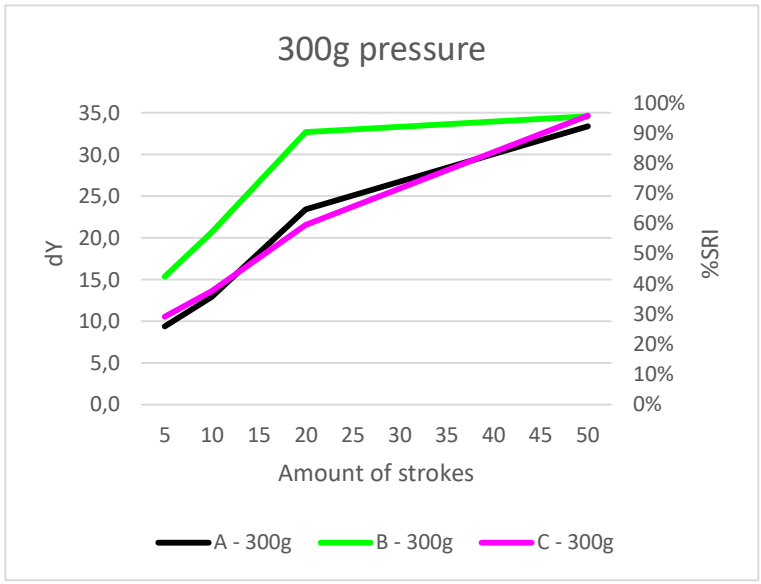


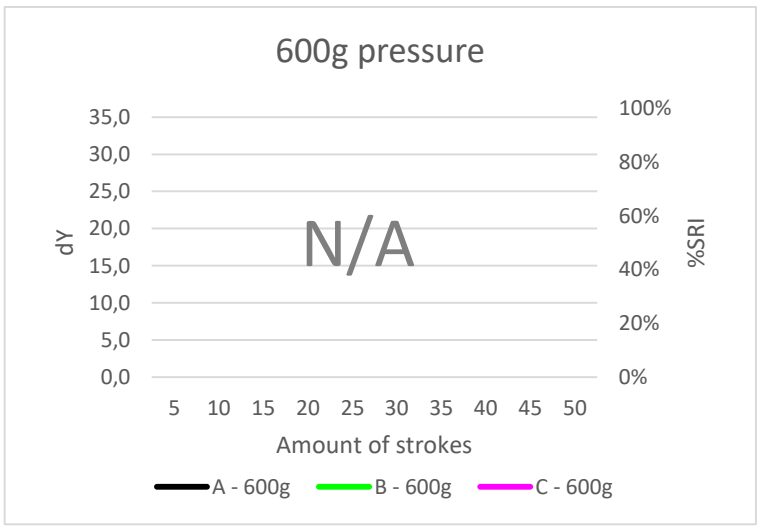
DM-46

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

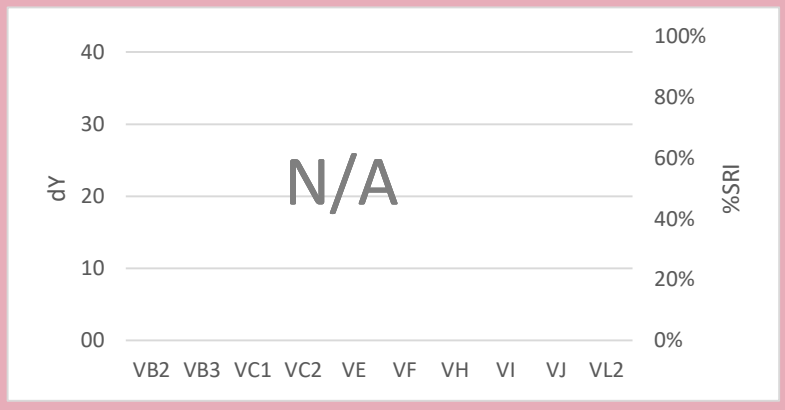
DS-47

Baked on grease

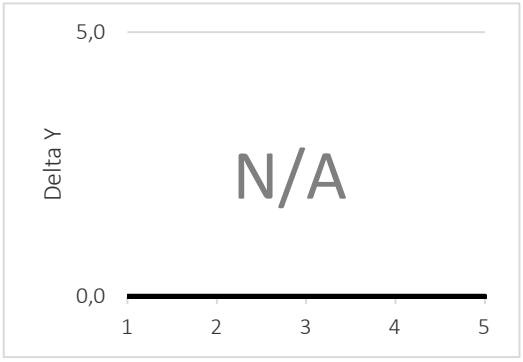
Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ☆☆☆☆☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-47	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-47	Steel plate, smooth (DS H)	120 x 100 x 1	44,4

Autodish detergent comparison



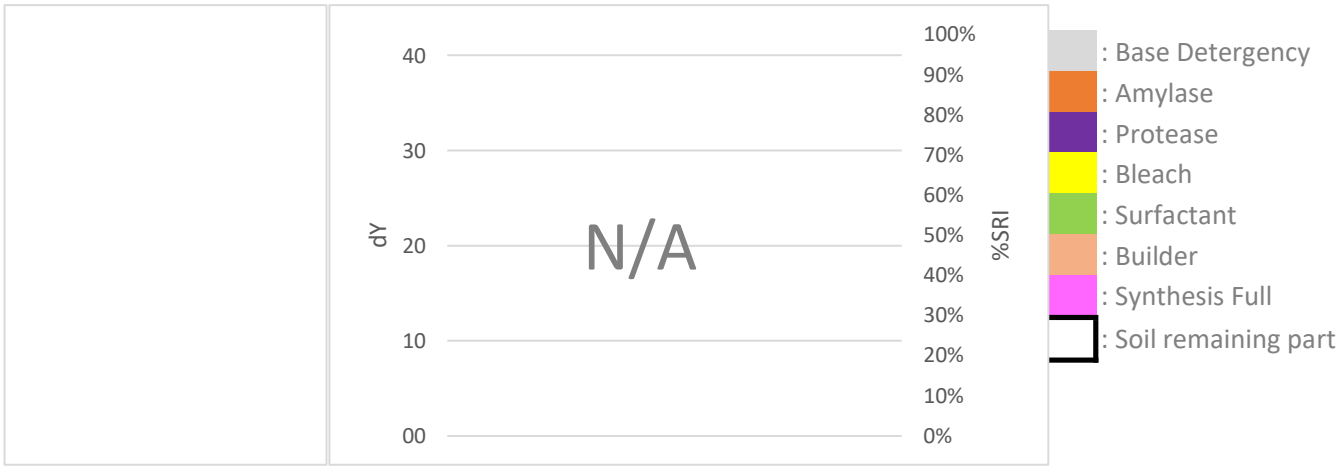
Quality Control



CFT-GSM D

VB2	VB3	VC1	VC2	VE	VF	VH	VI	VJ	VL2
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Autodish detergent component response



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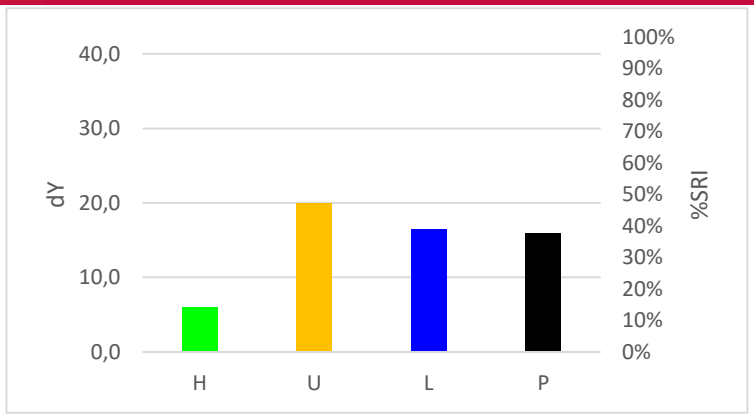
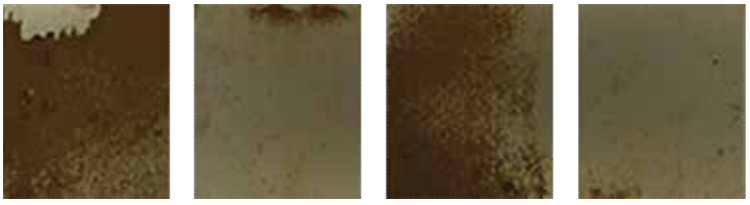
Professional cleaning detergent comparison



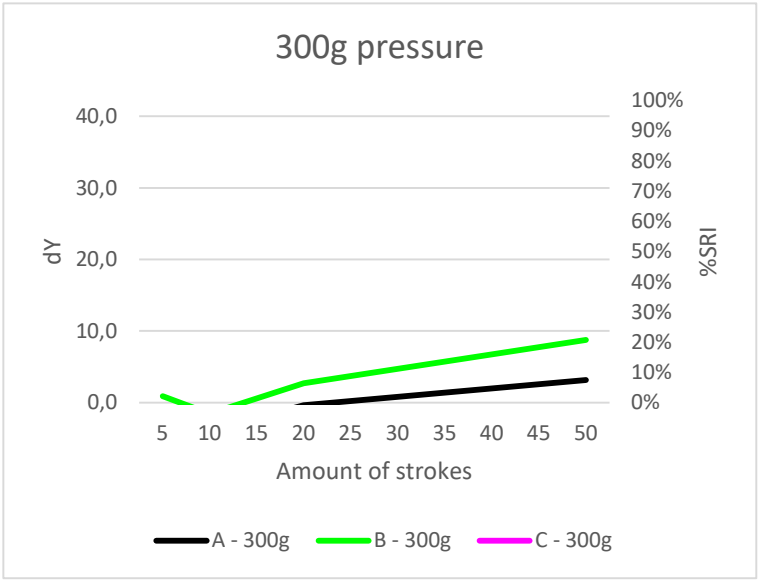
DS-47

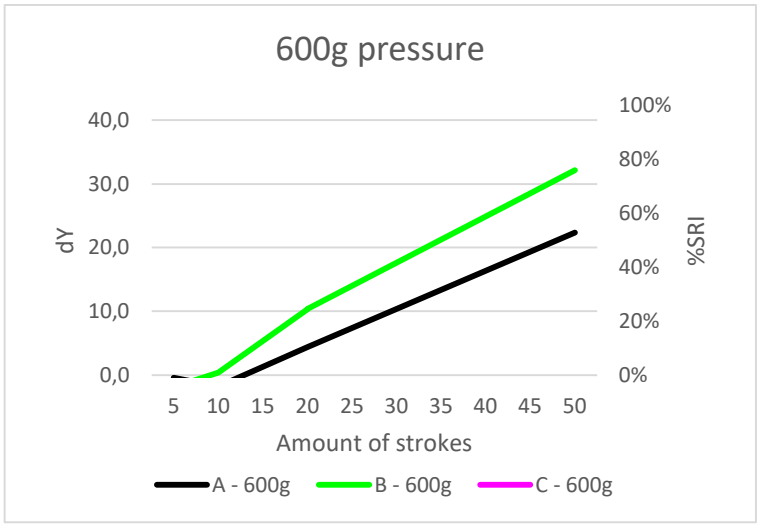


H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★☆☆☆☆

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★☆☆☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

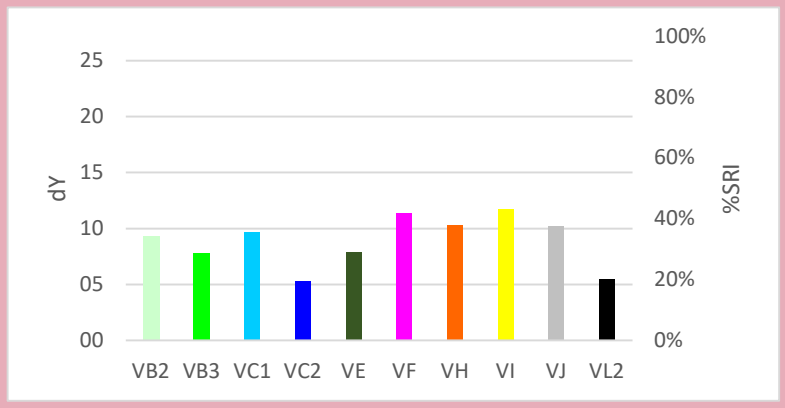
DM-51

Red wine

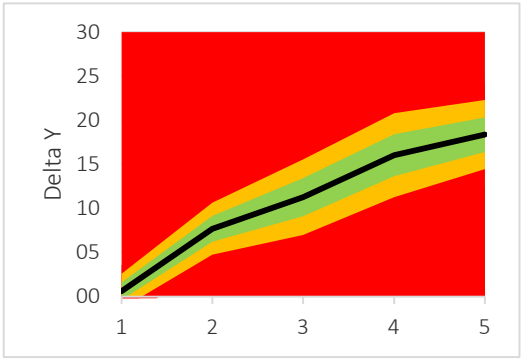
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-51	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6

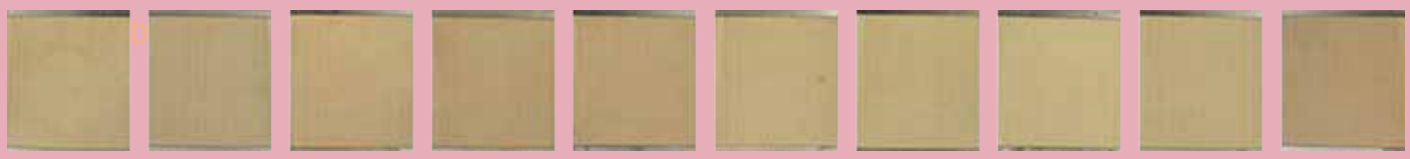
Autodish detergent comparison



Quality Control

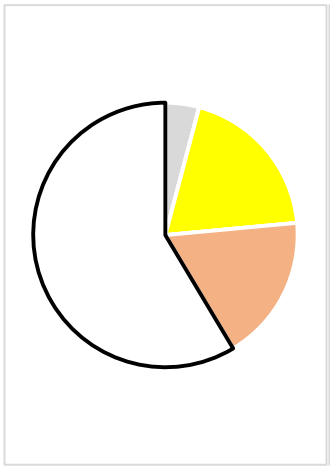


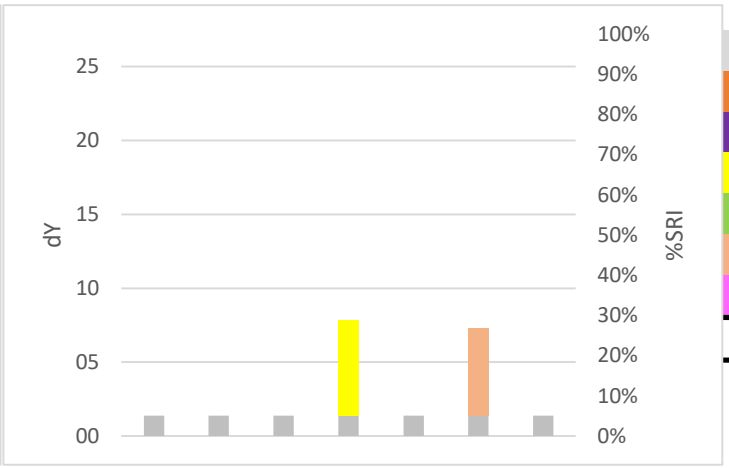
CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



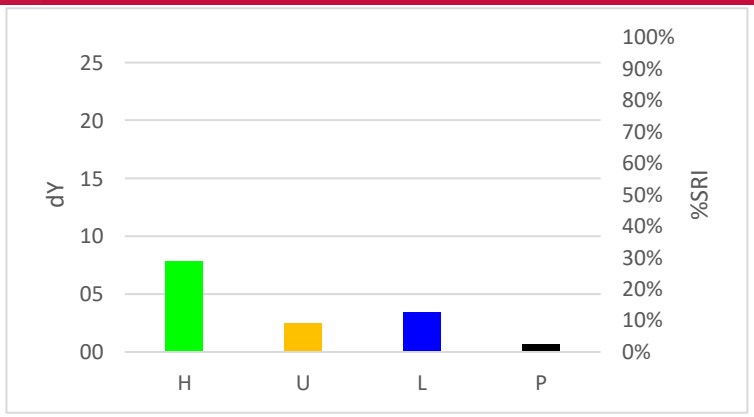


: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison

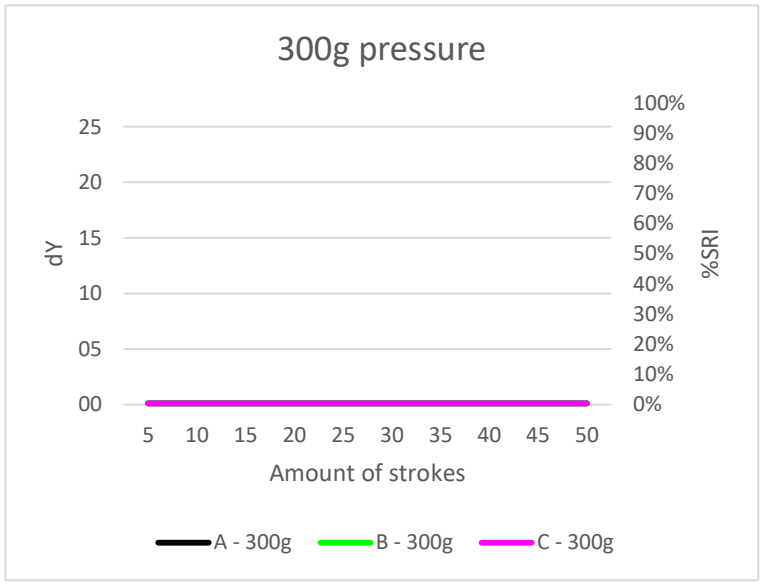
DM-51

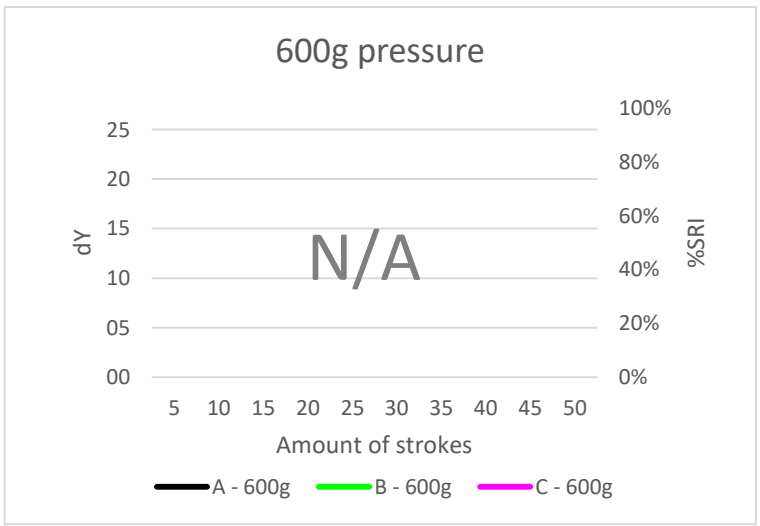


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

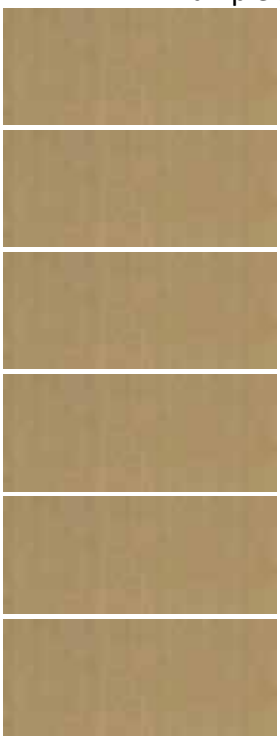
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

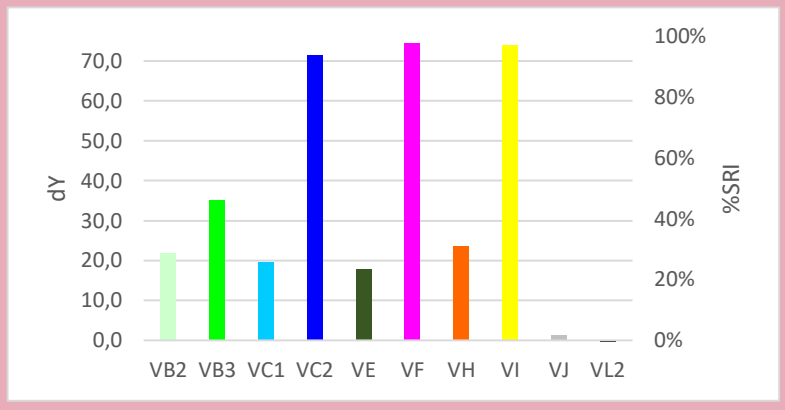
DM-54

Oatmeal, coloured with chocolate

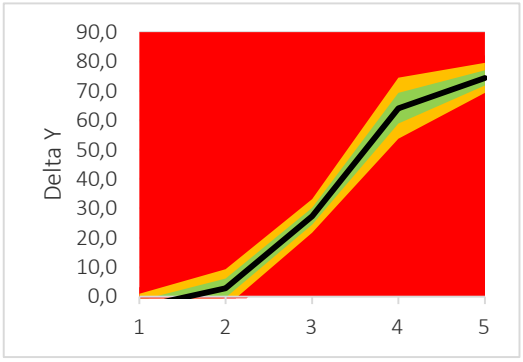
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-54	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-54	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DP-54	Plastic (PP) tile, smooth (DP H)	120 x 100 x 1,2	84,1

Autodish detergent comparison



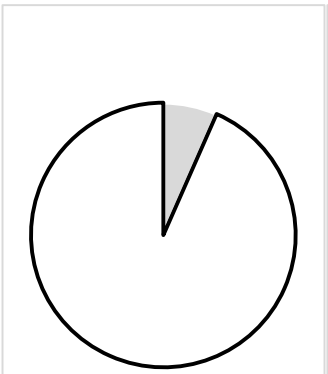
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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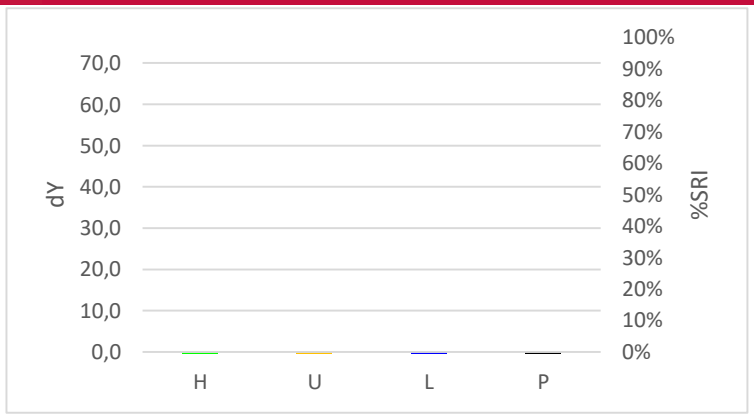
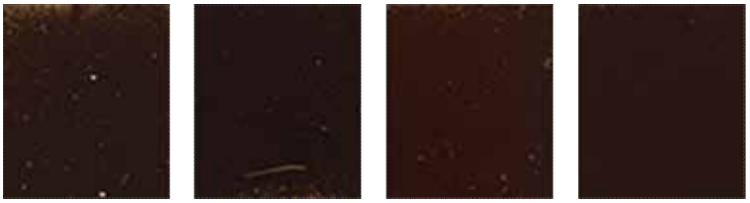
Professional cleaning detergent comparison



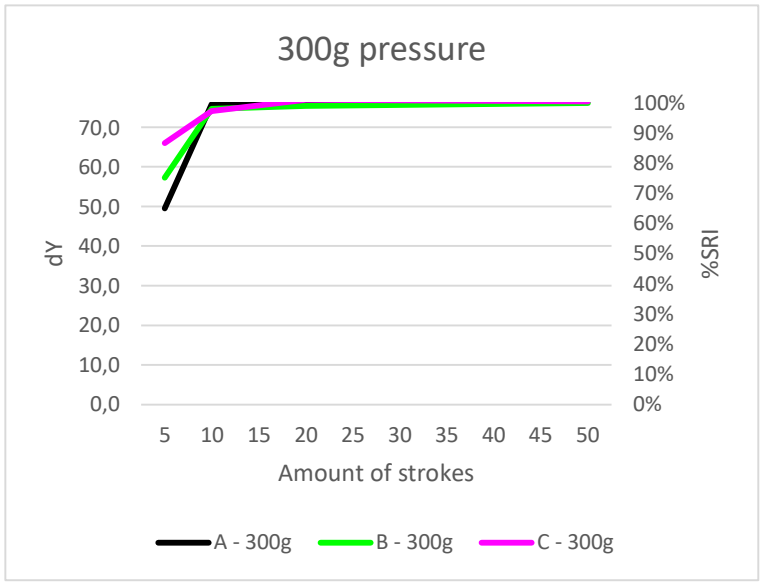
DM-54

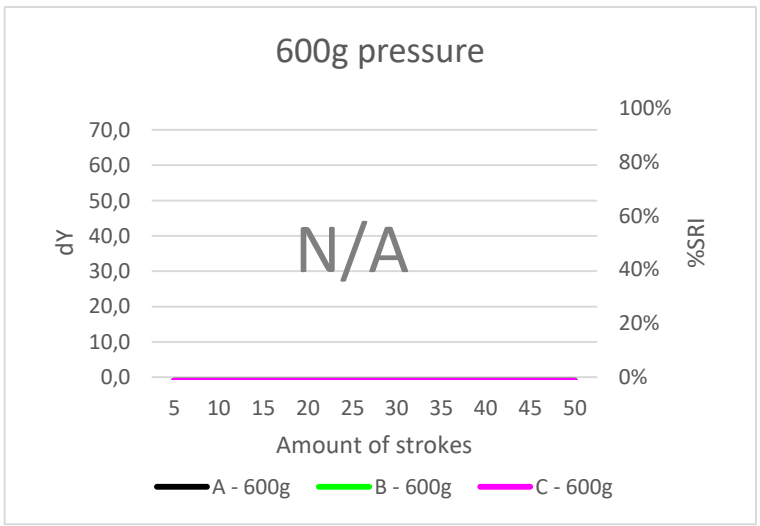


H U L P

Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

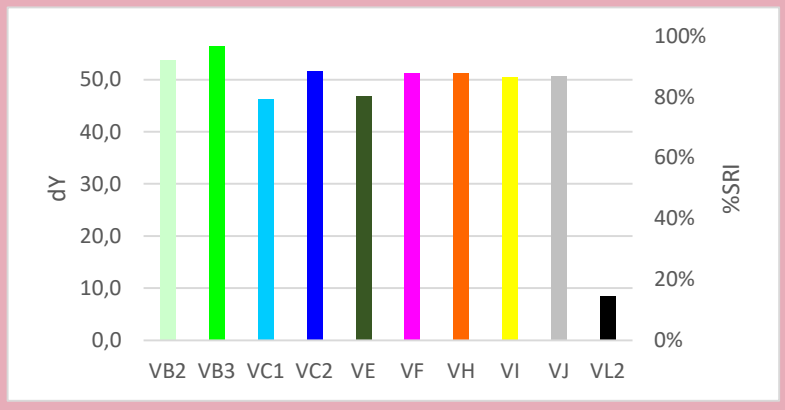
DM-60

Spinach

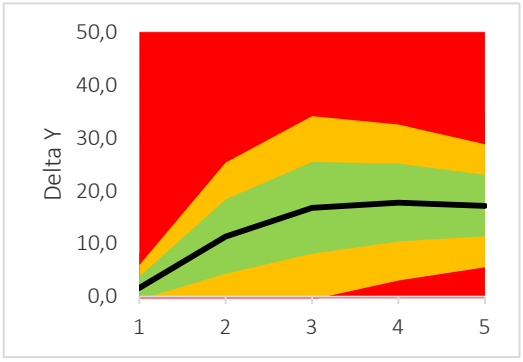
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-60	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-60	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



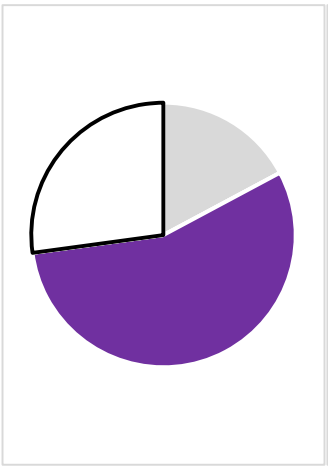
Quality Control

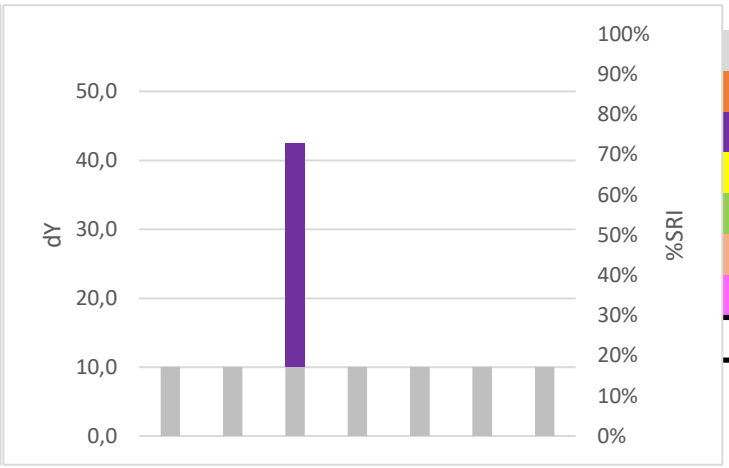


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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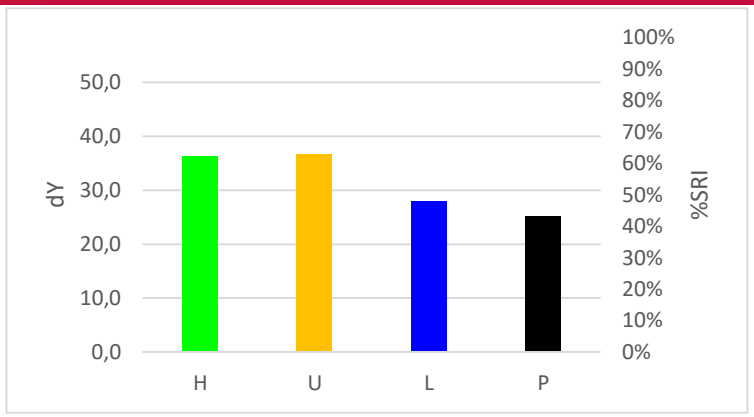
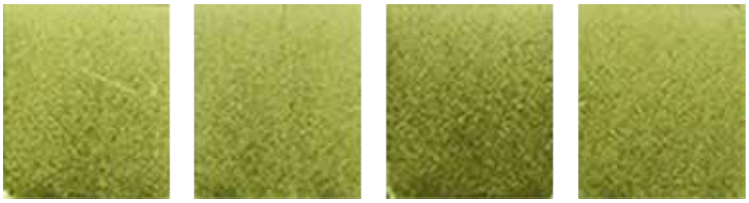
Professional cleaning detergent comparison

DM-60

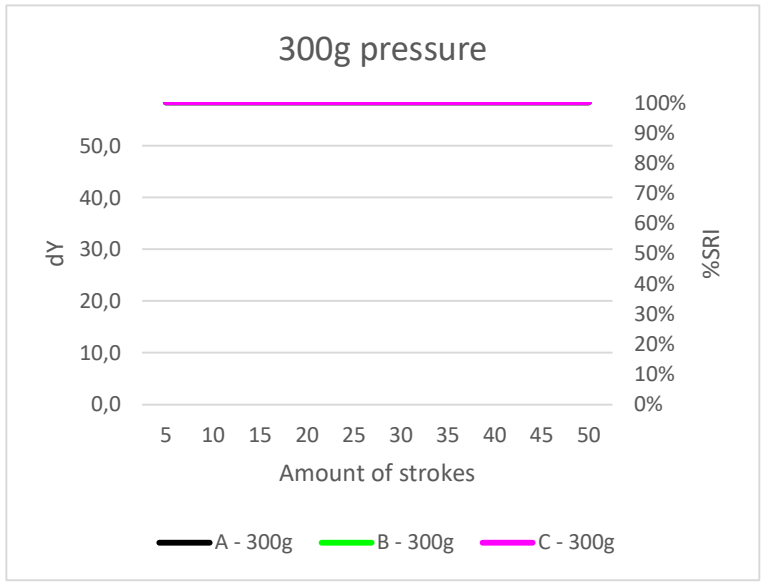


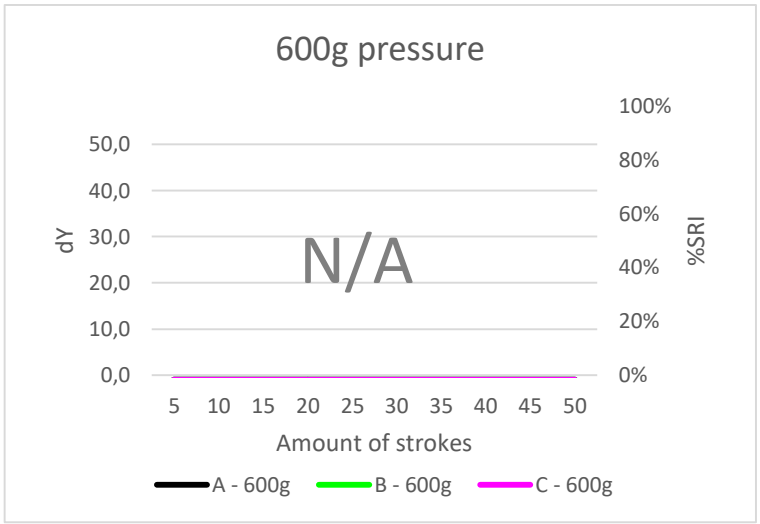


H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★☆☆☆☆

Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

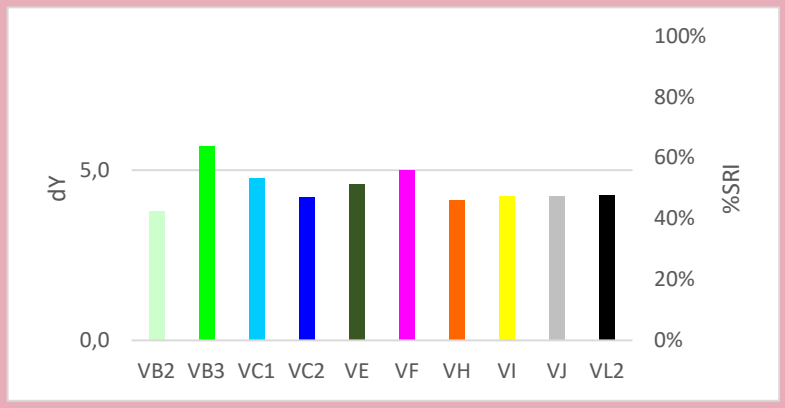
DM-62

Curry

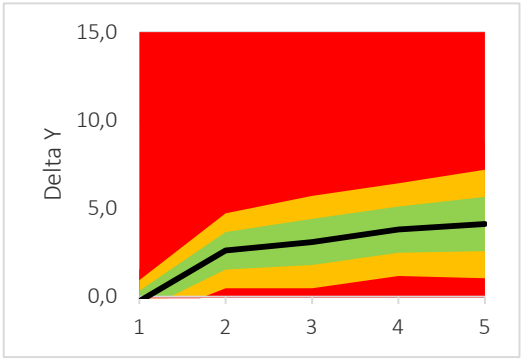
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-62	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

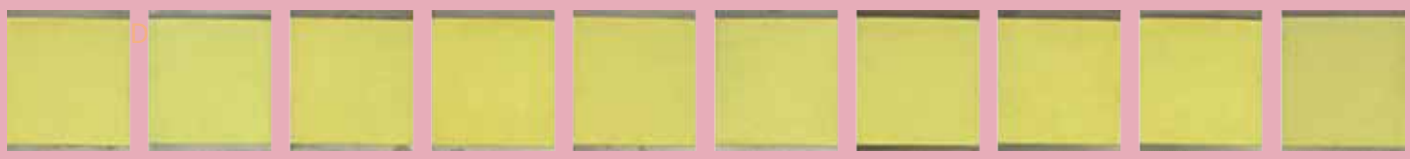
Autodish detergent comparison



Quality Control

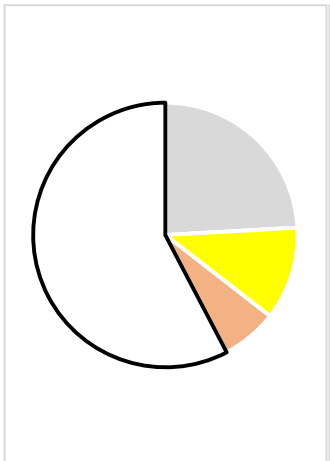


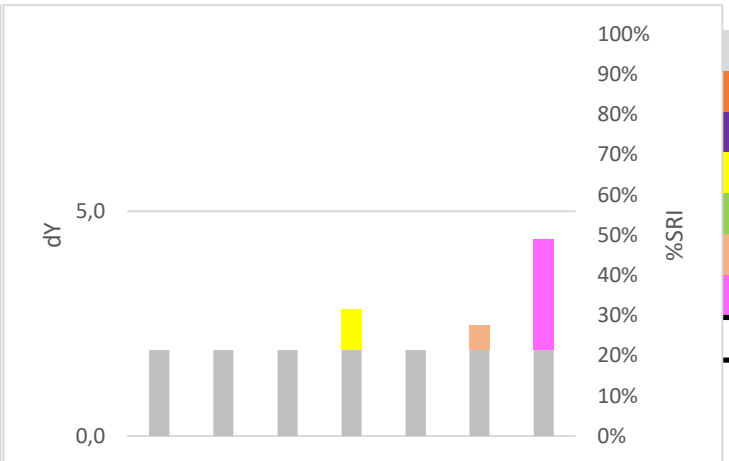
CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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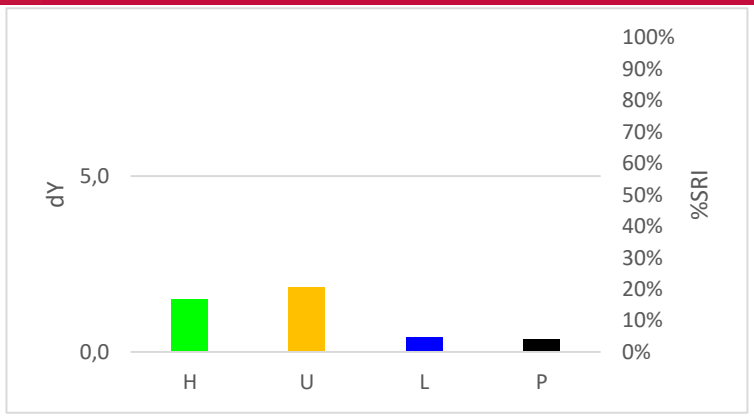
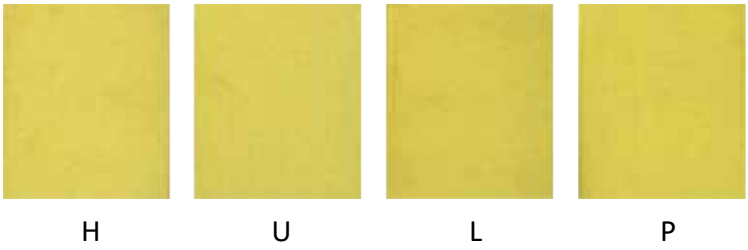
Professional cleaning detergent comparison

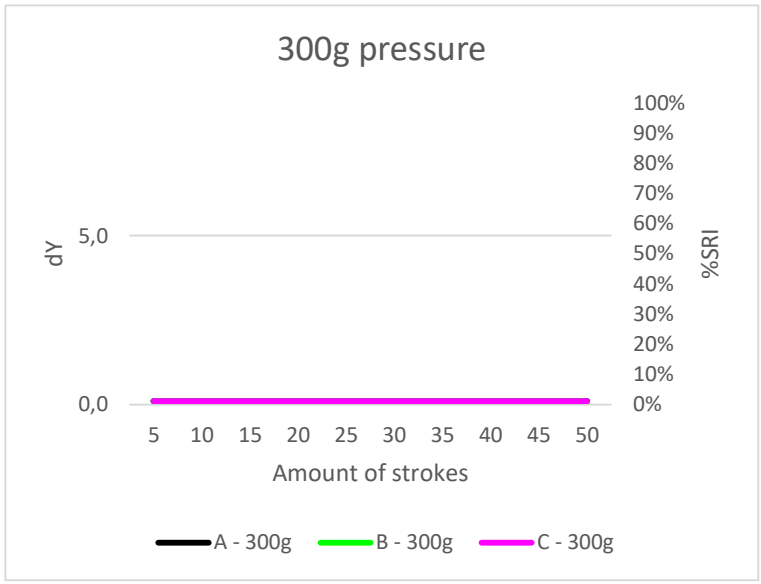
DM-62

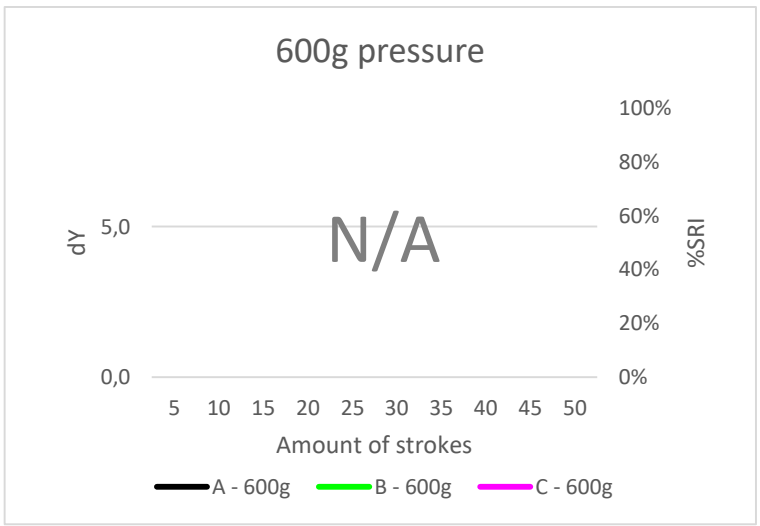




Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

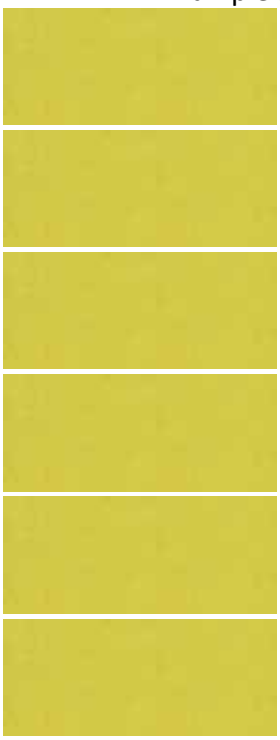
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

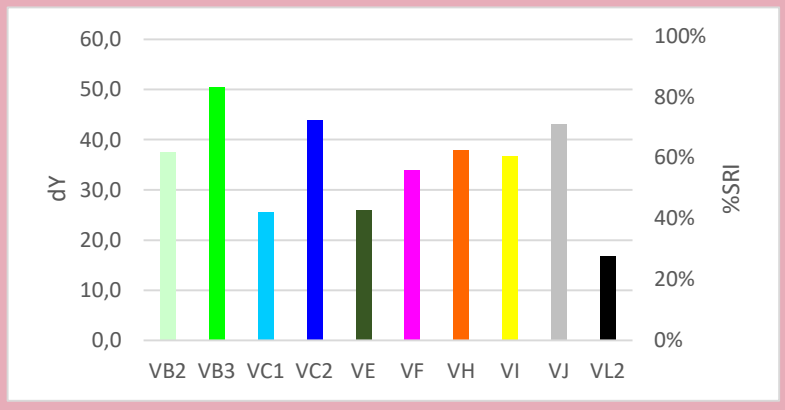
DM-63

Chicken Biryani

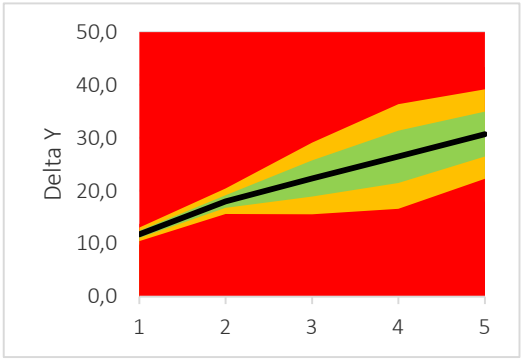
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-63	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-63	Technical Porcelain (DT H)	120 x 100 x 1	87,2

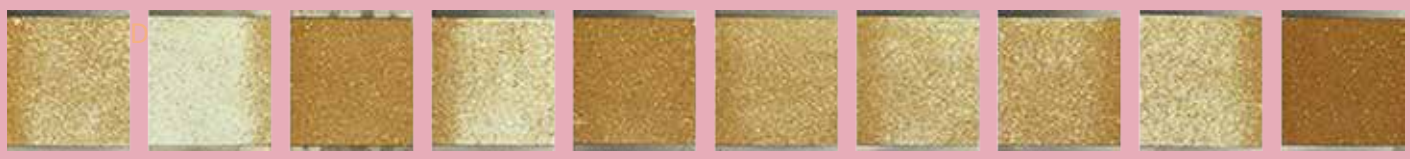
Autodish detergent comparison



Quality Control

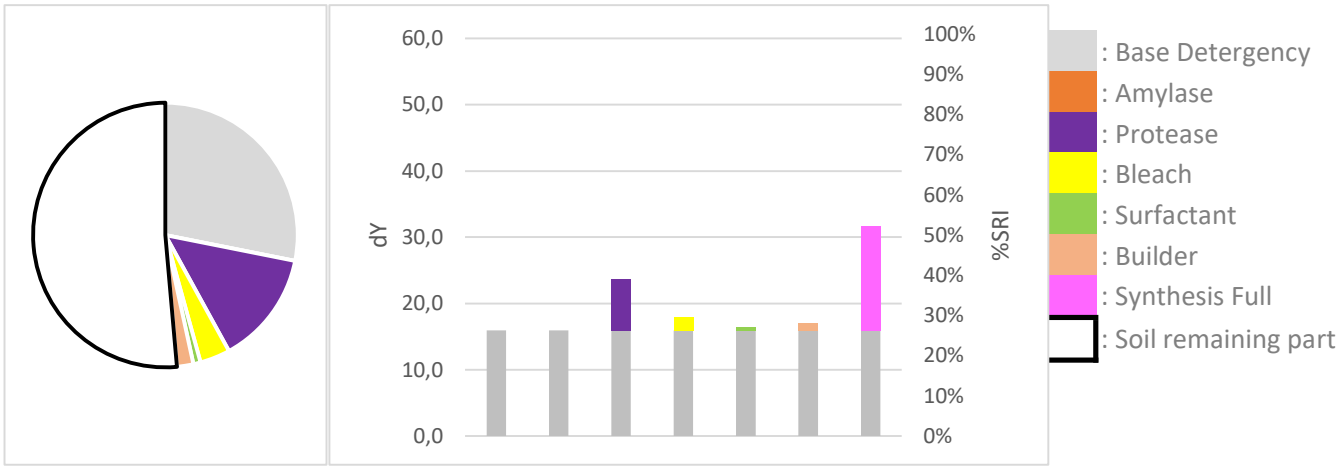


CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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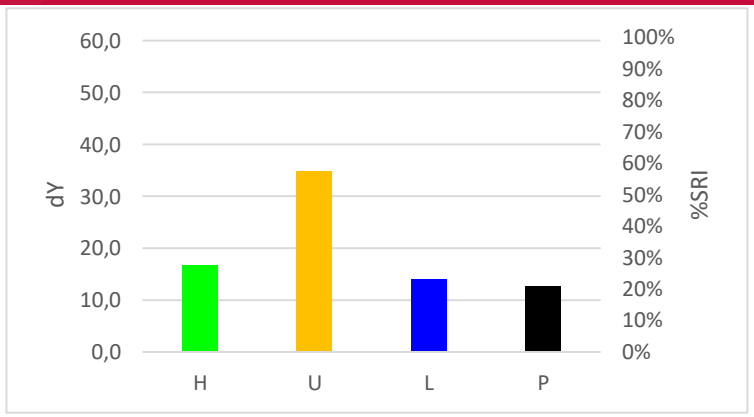
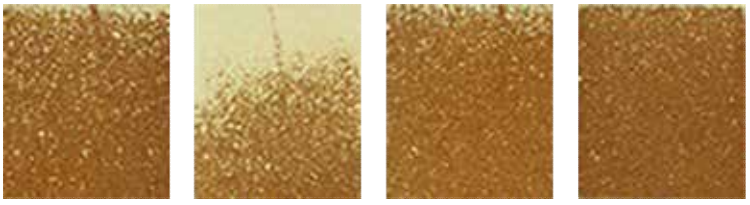
Professional cleaning detergent comparison

DM-63

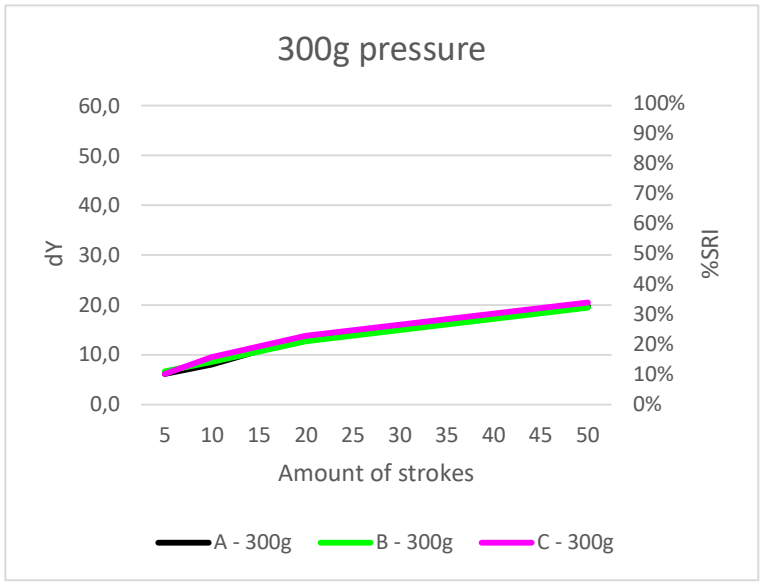


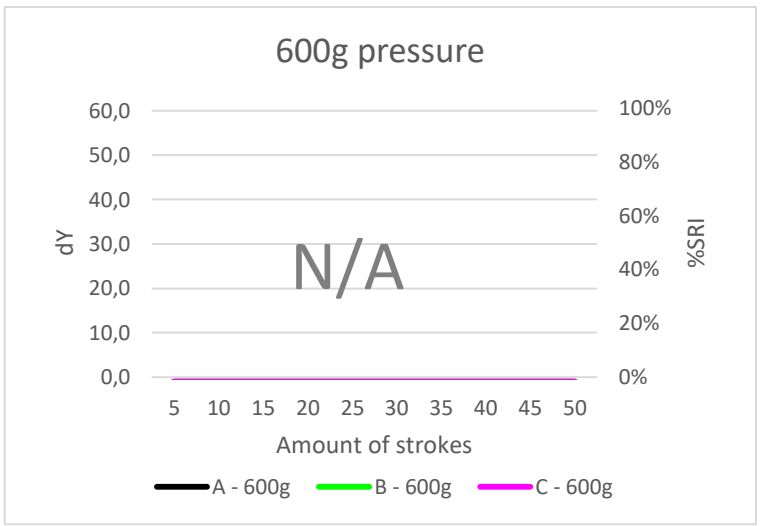


H U L P

Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★☆☆☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

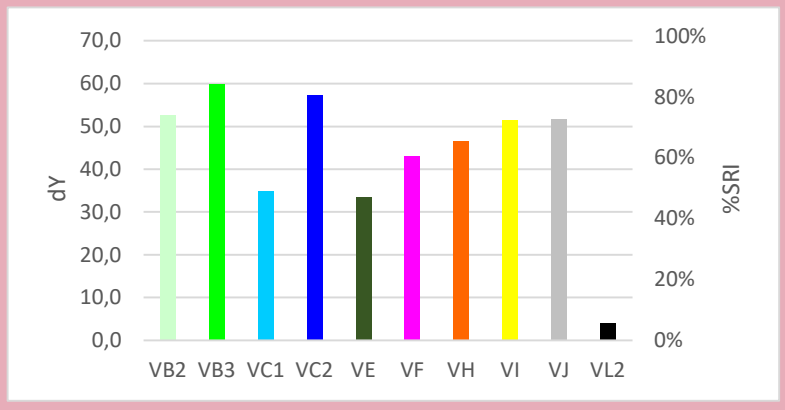
DM-71

Mixed (corn/rice) starch, coloured with food colourant

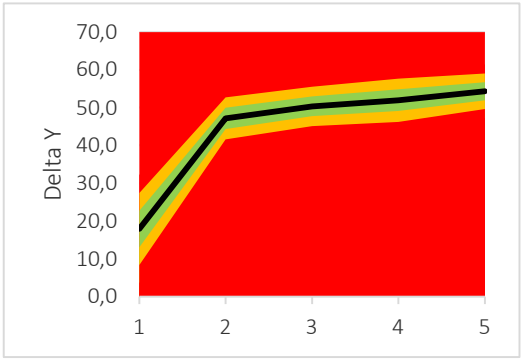
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-71	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-71	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



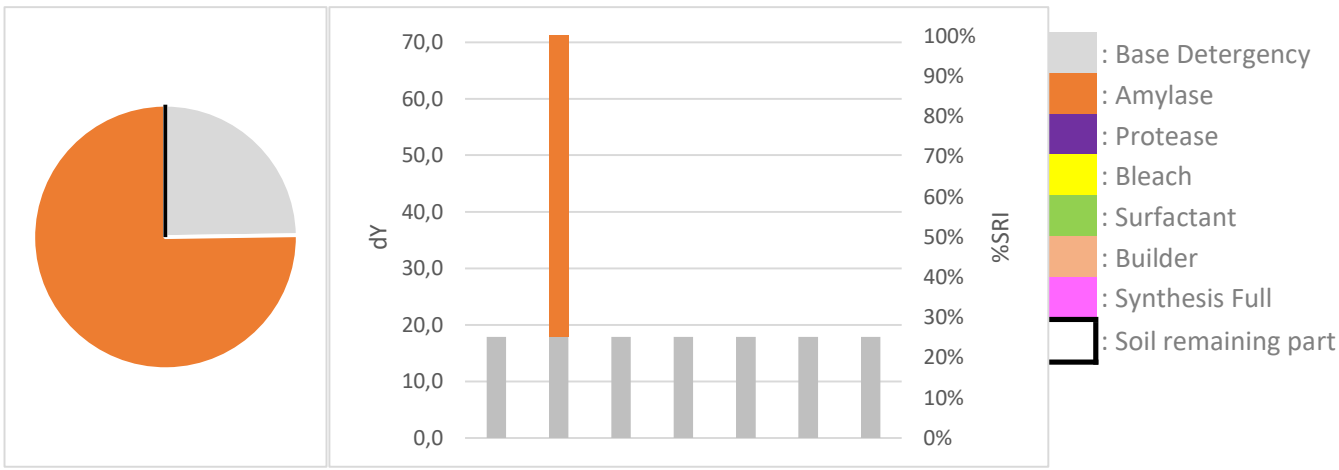
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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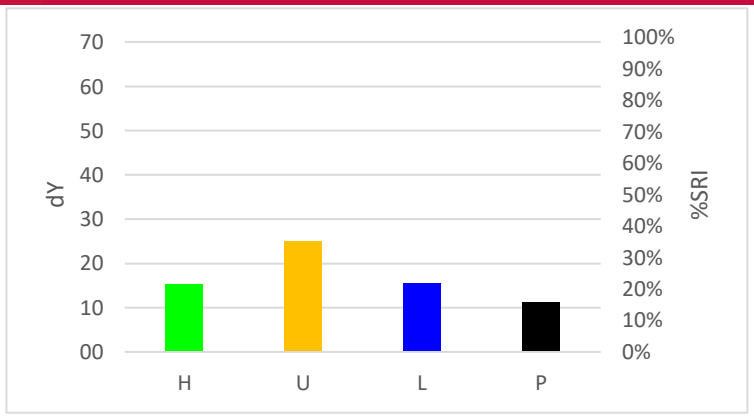
Professional cleaning detergent comparison

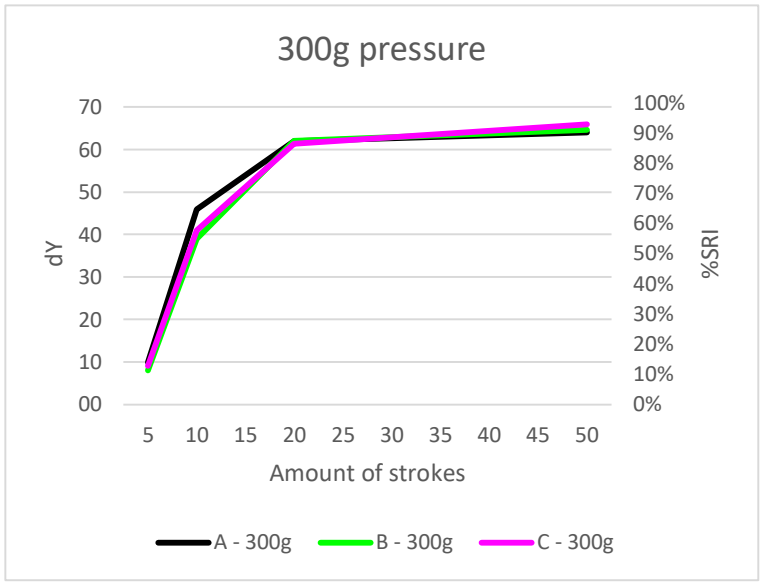


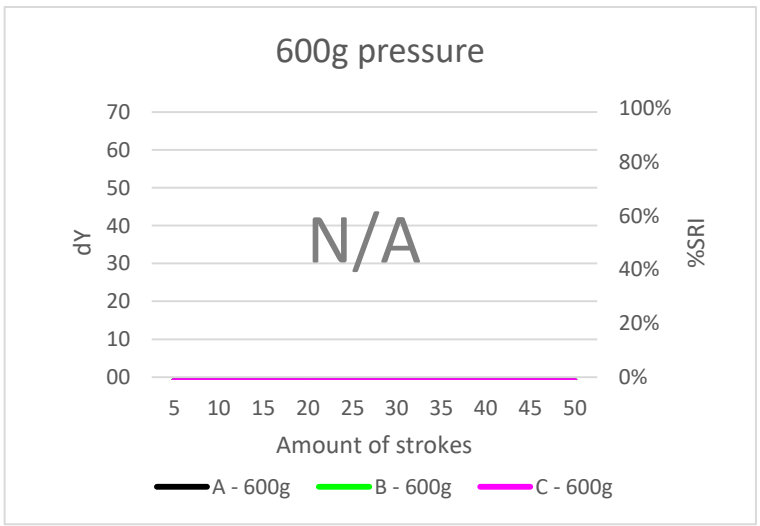
DM-71

H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆

Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

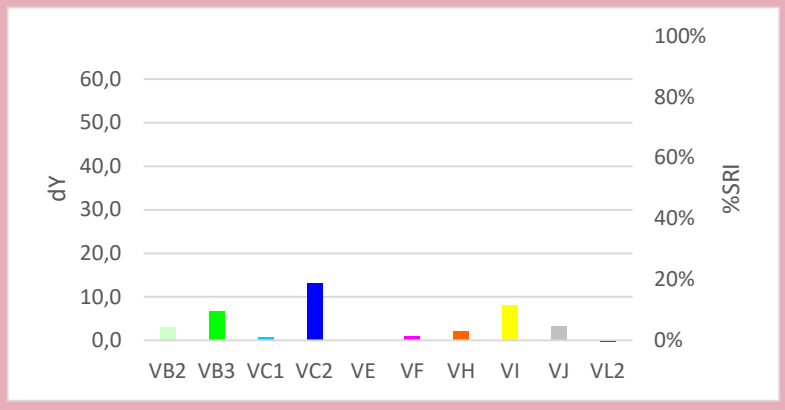
DM-73

Barilla pasta, coloured with food colourant

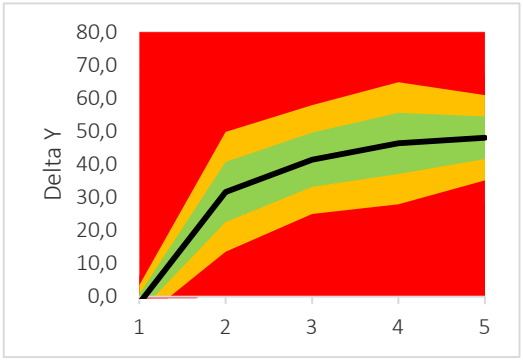
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-73	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-73	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



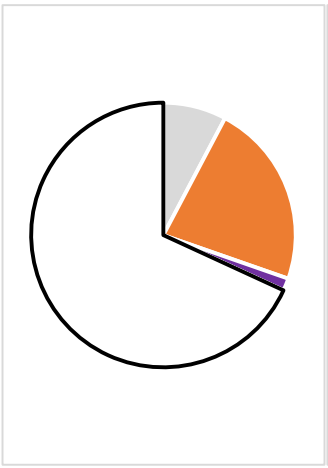
Quality Control

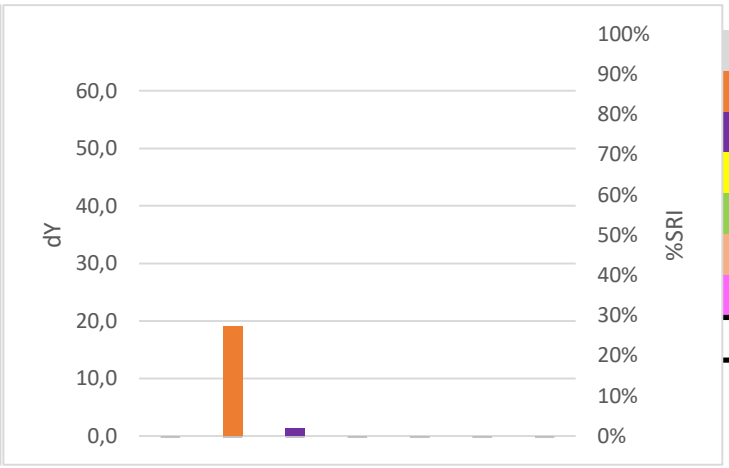


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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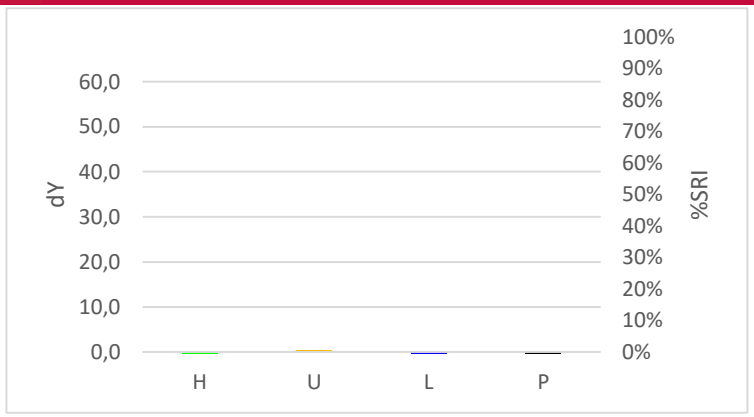
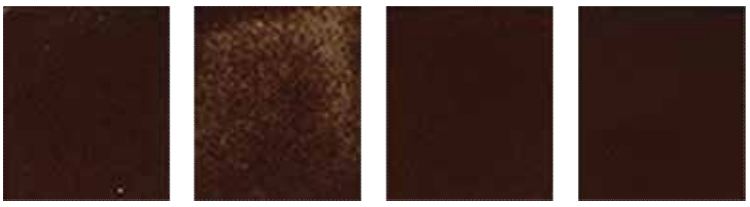
Professional cleaning detergent comparison



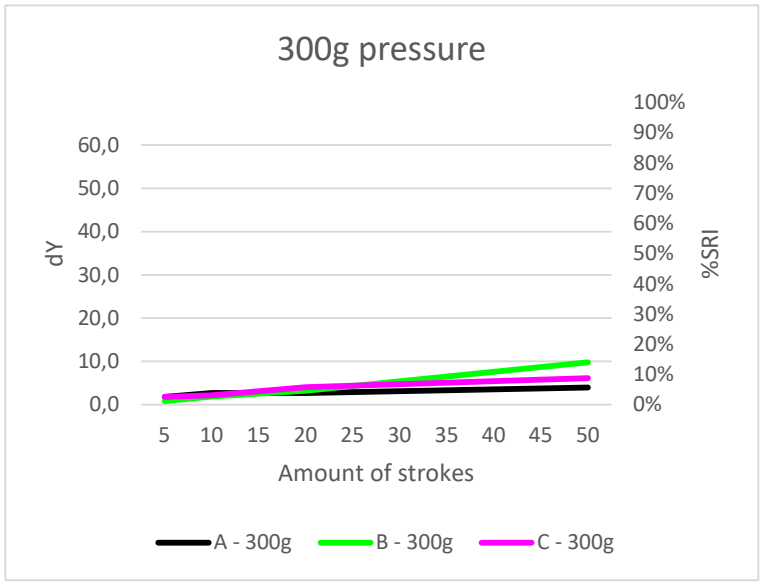
DM-73

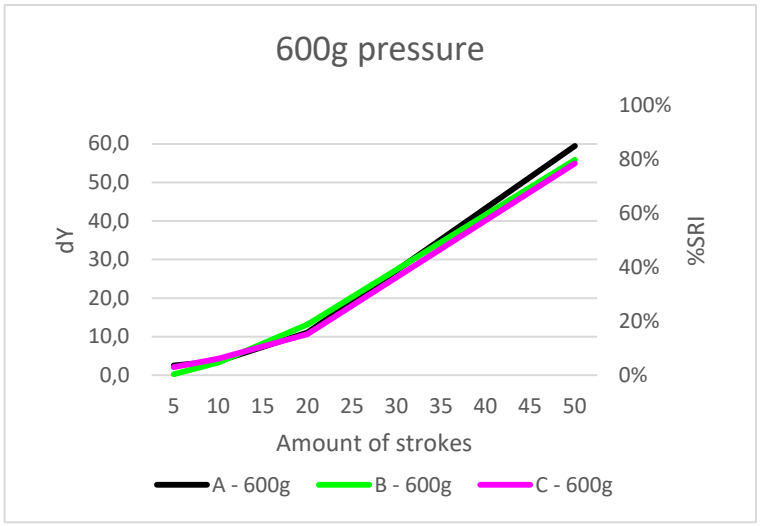


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

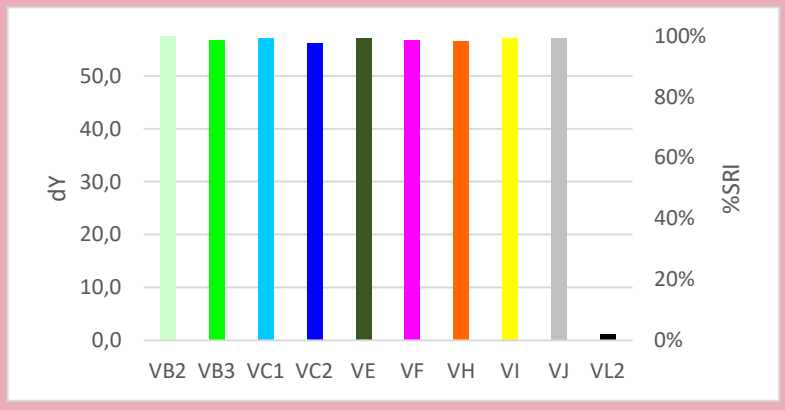
DM-75

Chocolate pudding

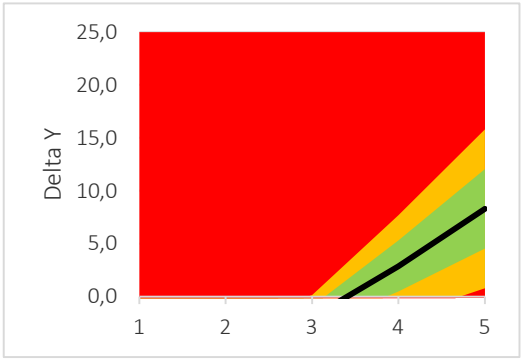
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-75	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-75	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



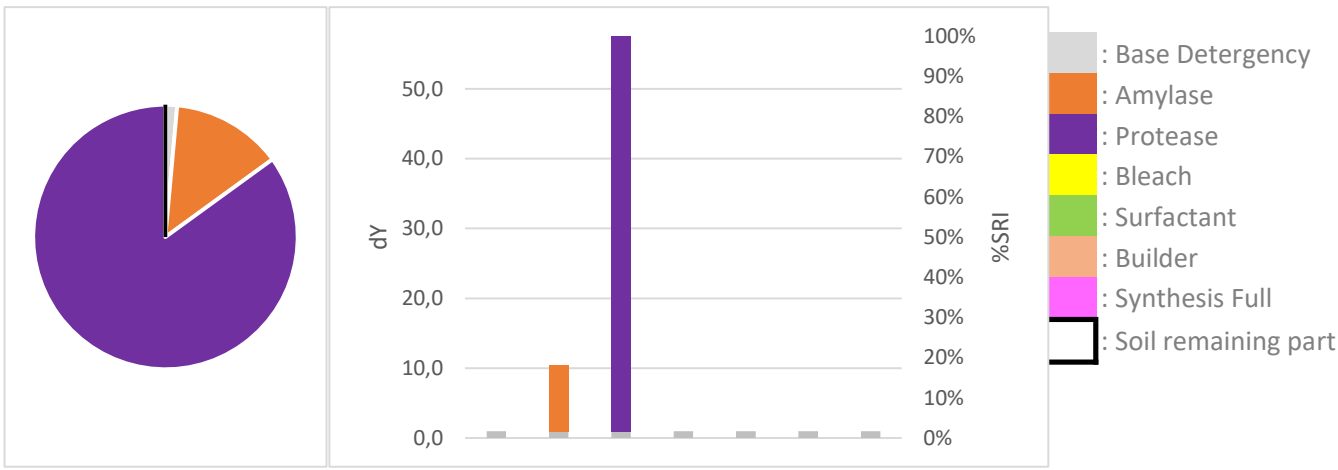
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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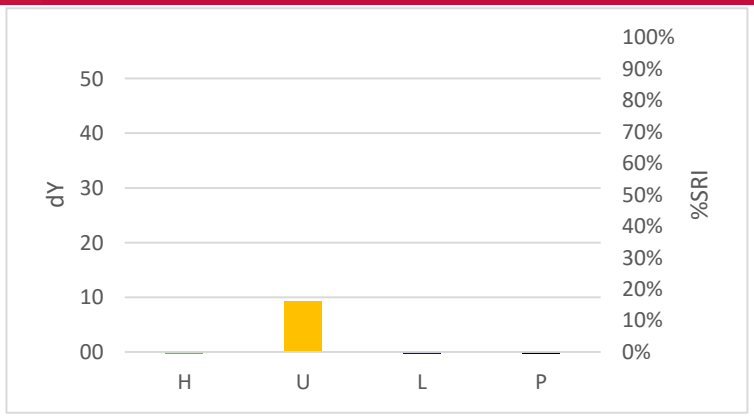
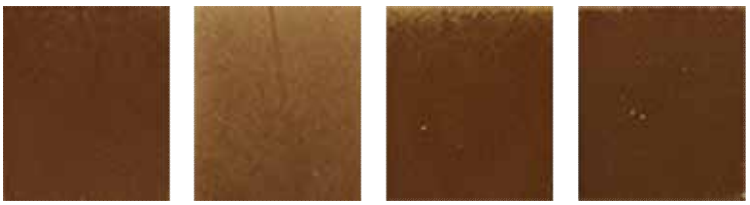
Professional cleaning detergent comparison



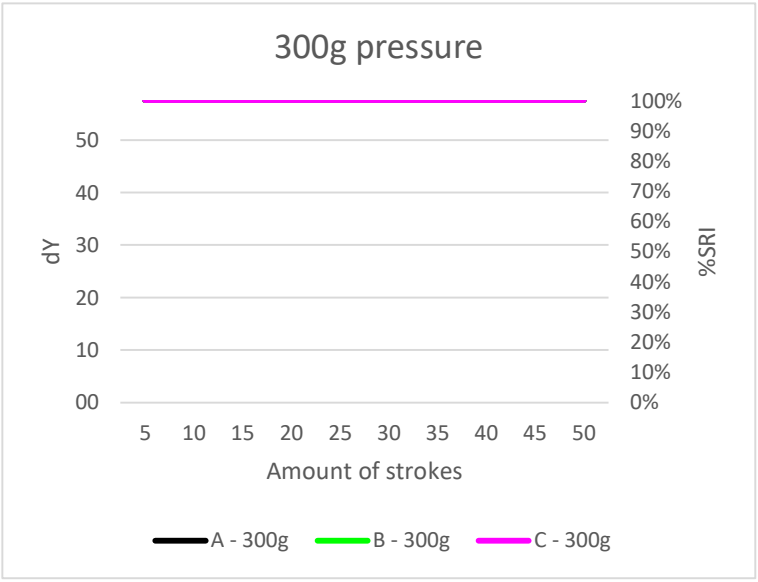
DM-75

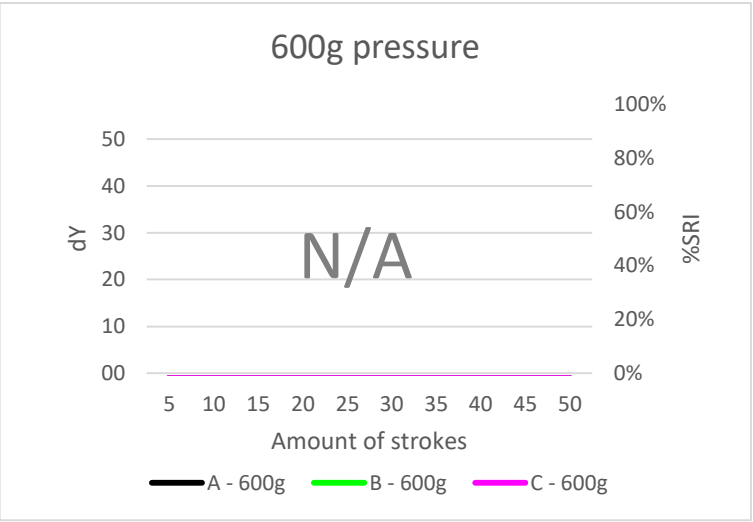


H U L P

Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆

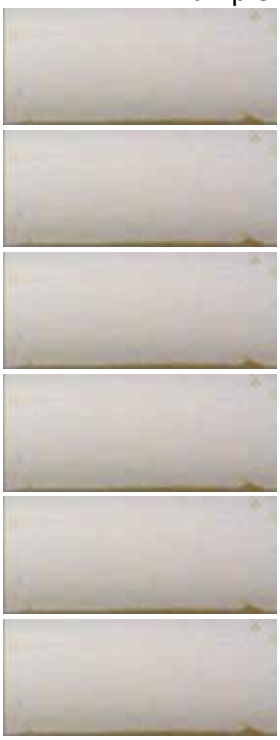
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

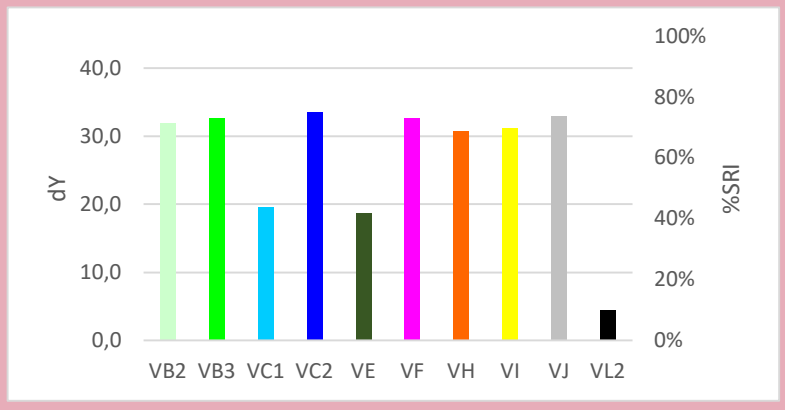
DM-76

Corn starch, coloured

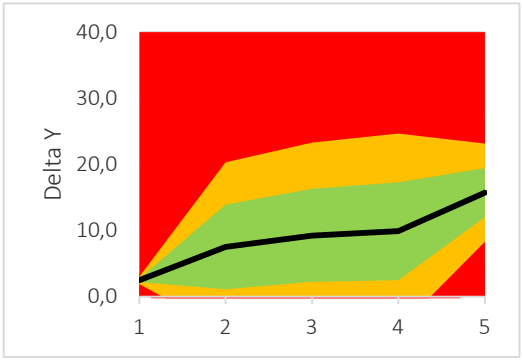
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-76	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-76	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-76	Steel plate, grated (DS I)	120 x 100 x 1	47,4
DG-76	Glass plate, grated (DG I)	120 x 100 x 2	59,4

Autodish detergent comparison



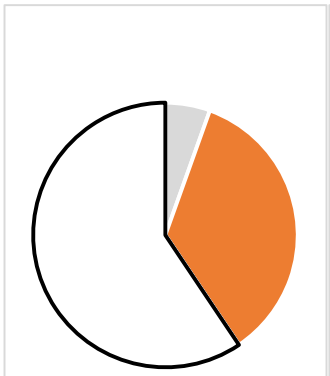
Quality Control

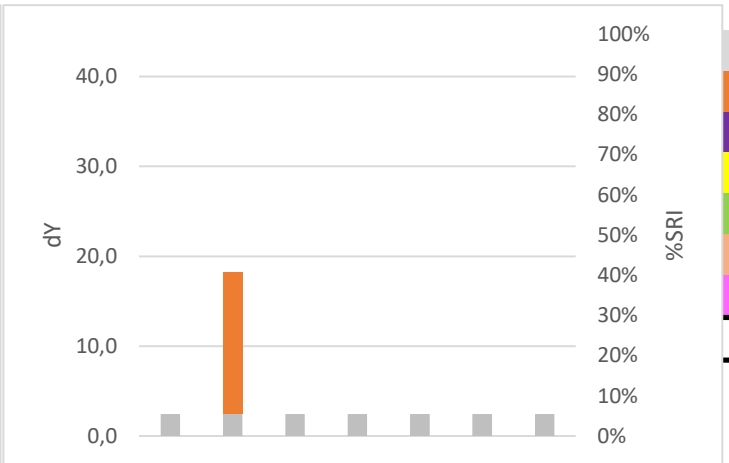


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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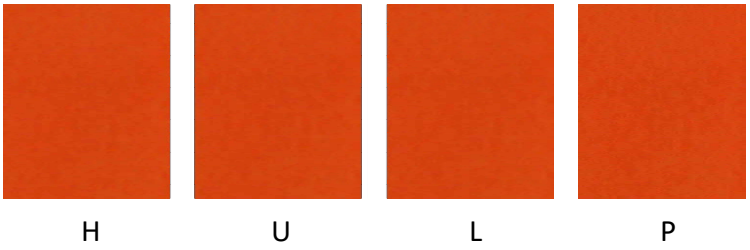
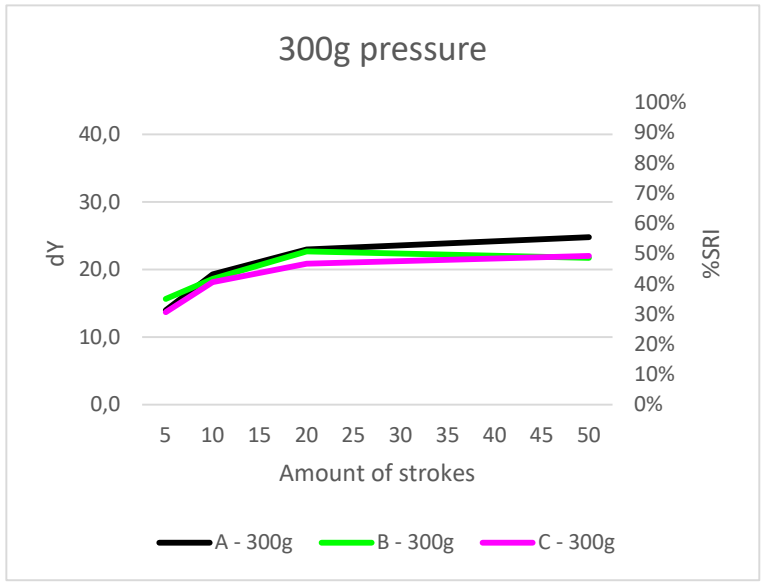
Professional cleaning detergent comparison

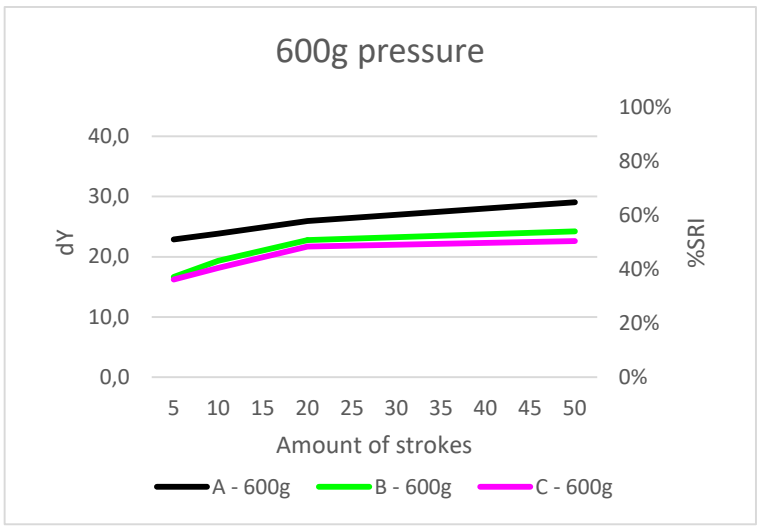
DM-76



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

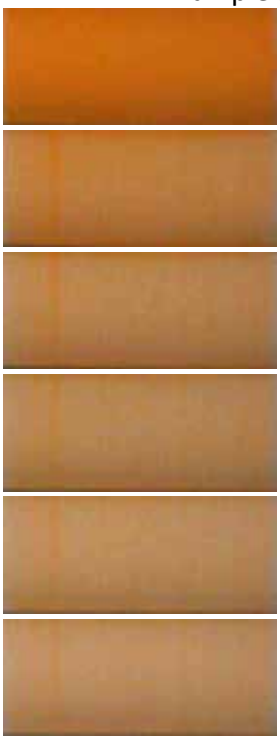
Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

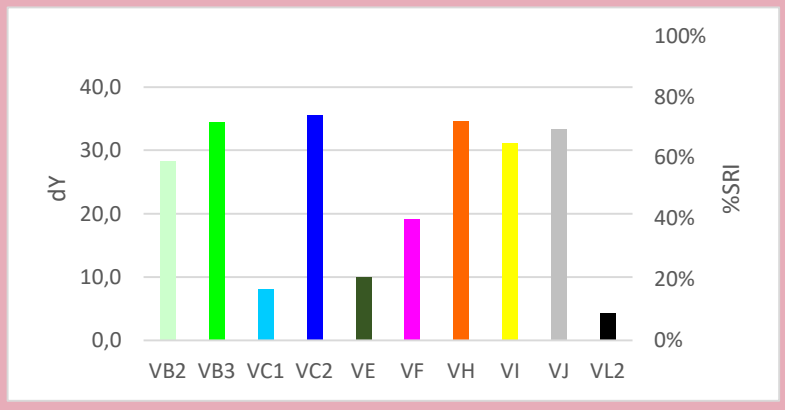
DM-176

Corn starch, coloured, extra severe

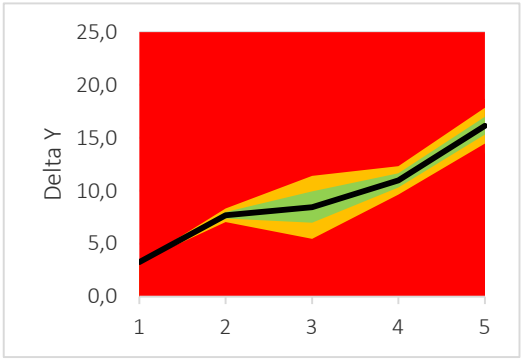
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-176	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-176	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



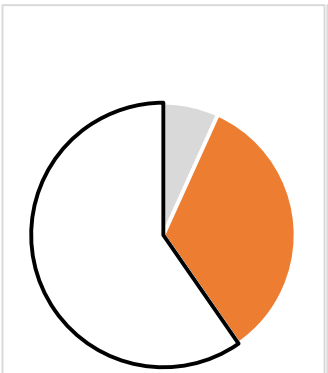
Quality Control

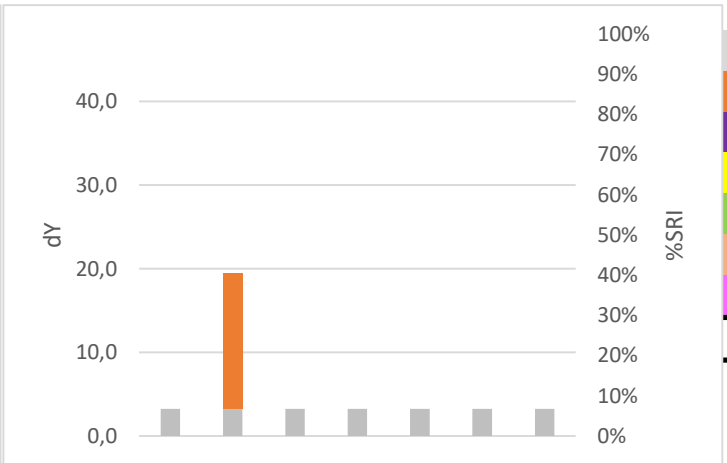


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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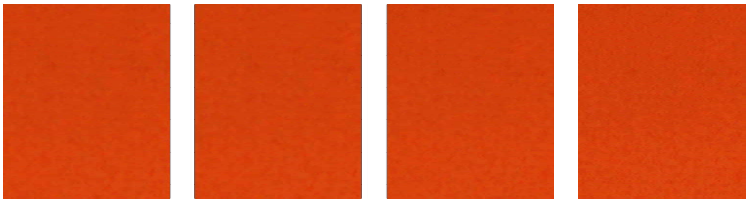
Professional cleaning detergent comparison

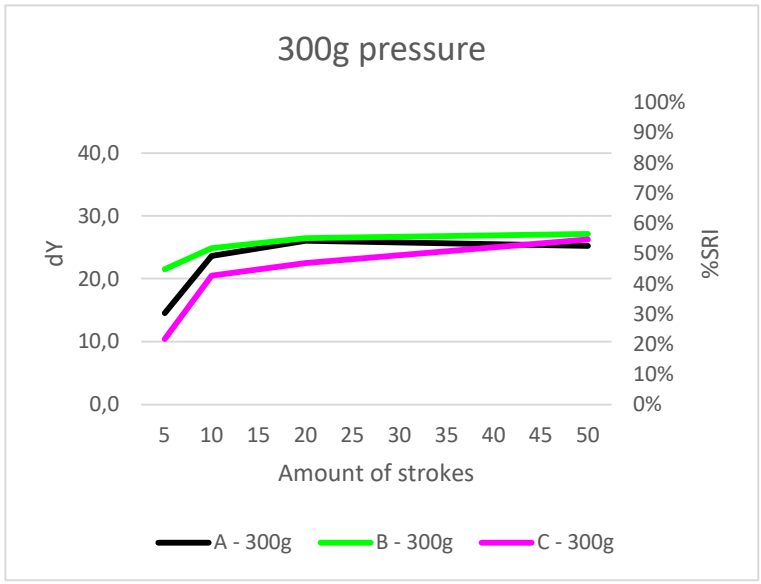
DM-176

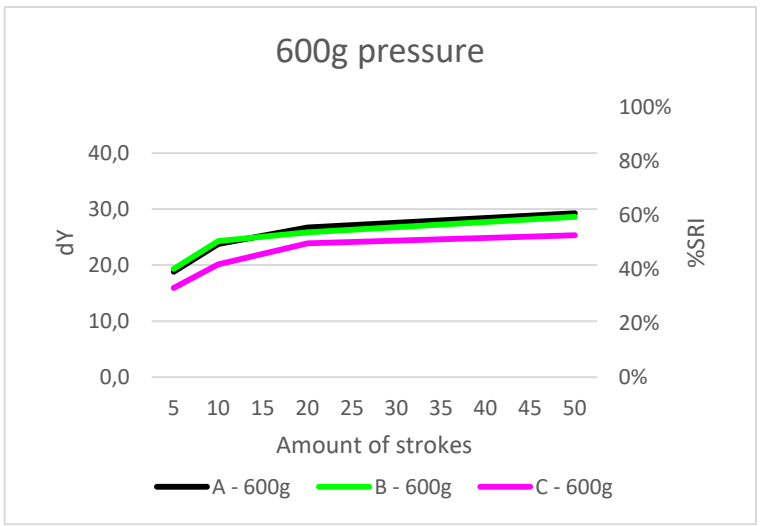


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

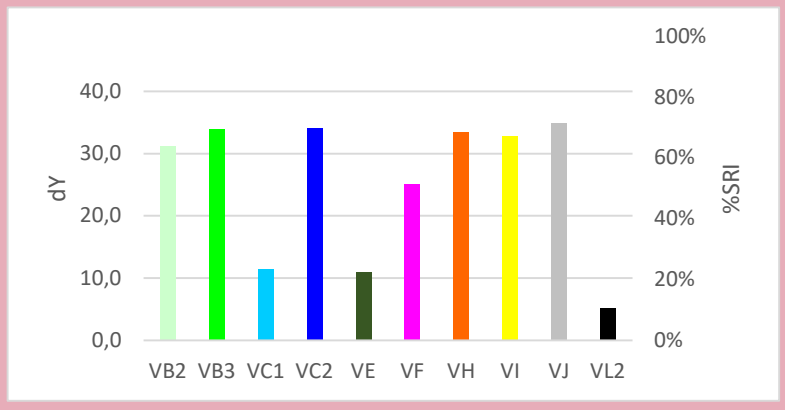
DM-276

Corn starch, coloured, double soil load

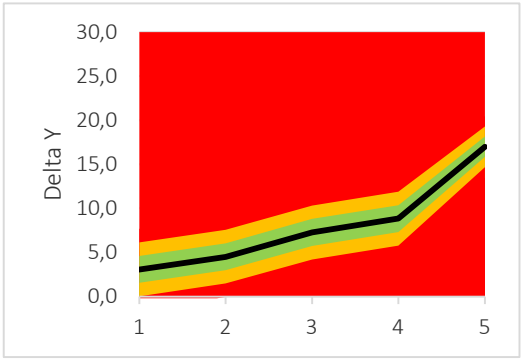
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-276	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-276	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



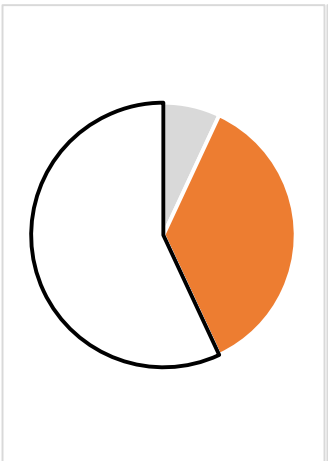
Quality Control

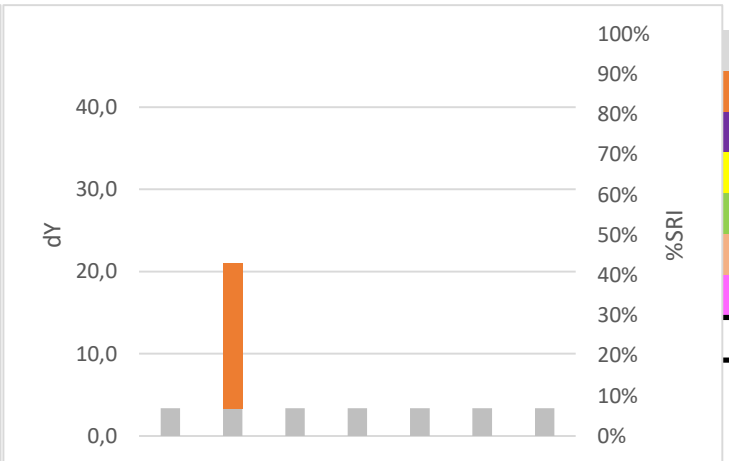


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



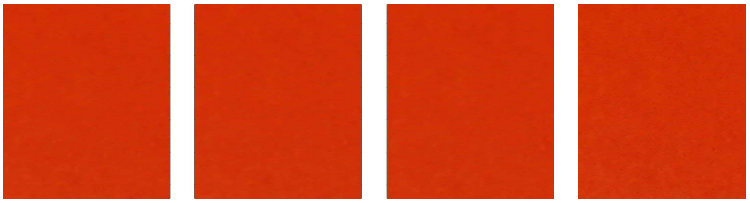


: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

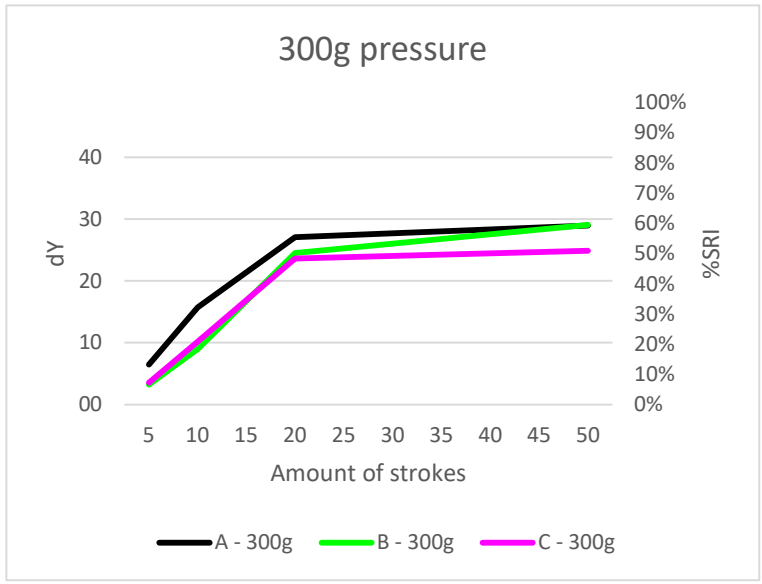
Professional cleaning detergent comparison

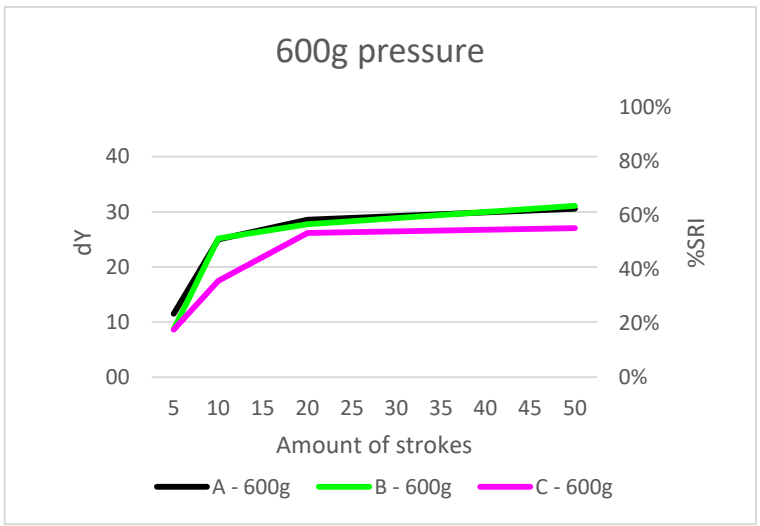
DM-276



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

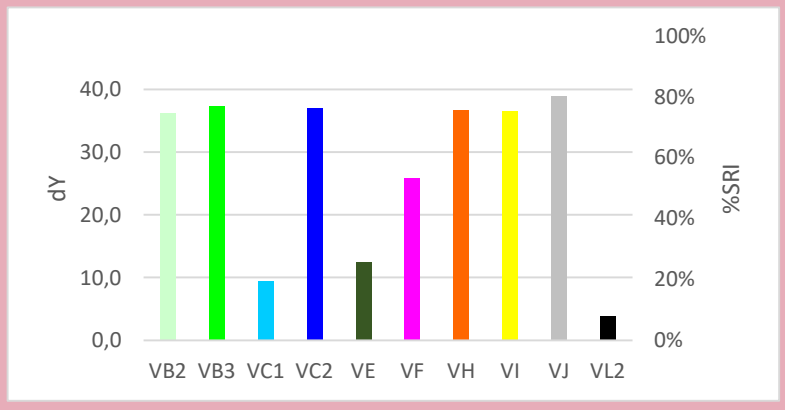
DM-376

Corn starch, coloured, triple soil load

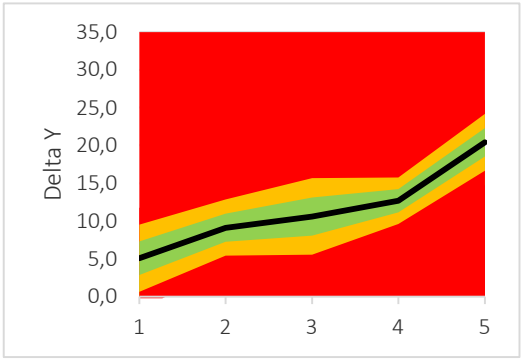
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-376	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-376	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



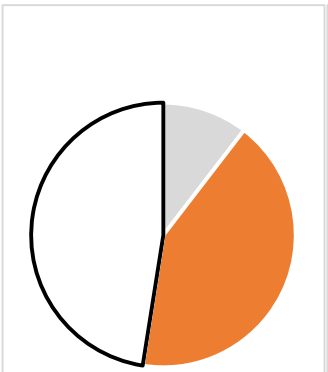
Quality Control

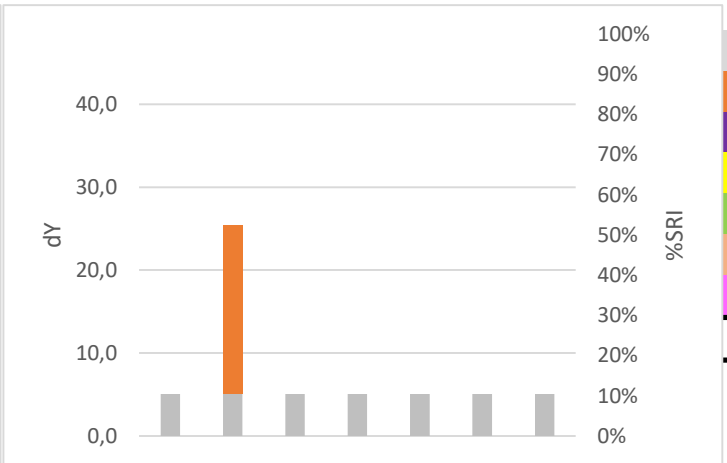


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



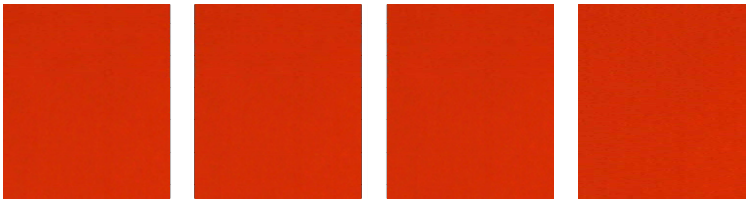


: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

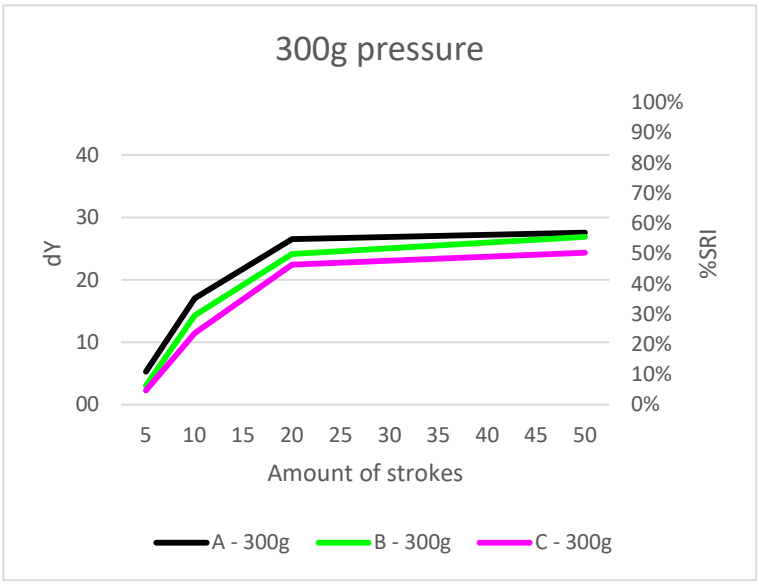
Professional cleaning detergent comparison

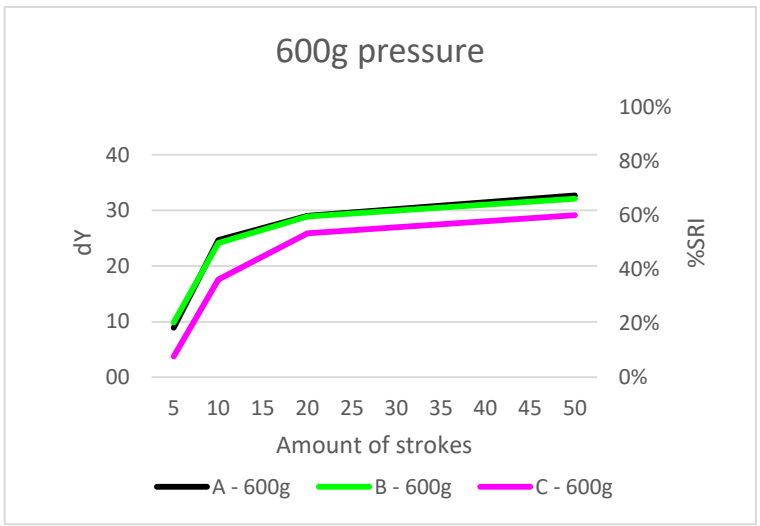
DM-376



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

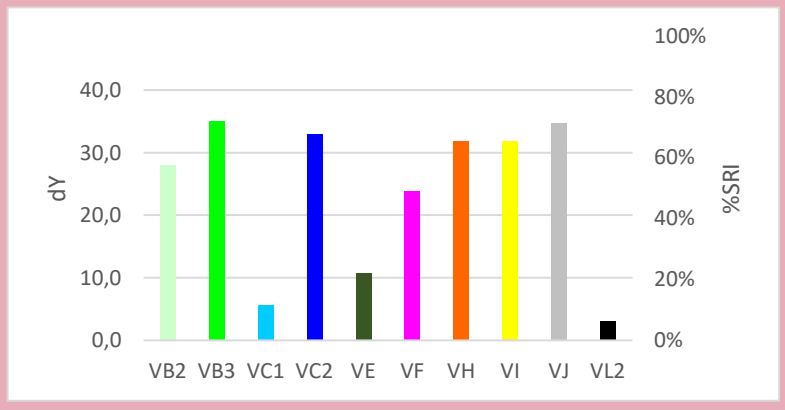
DM-476

Corn starch, coloured, heavy load extra stubborn

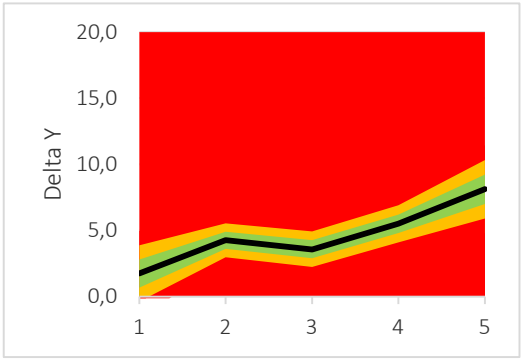
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-476	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



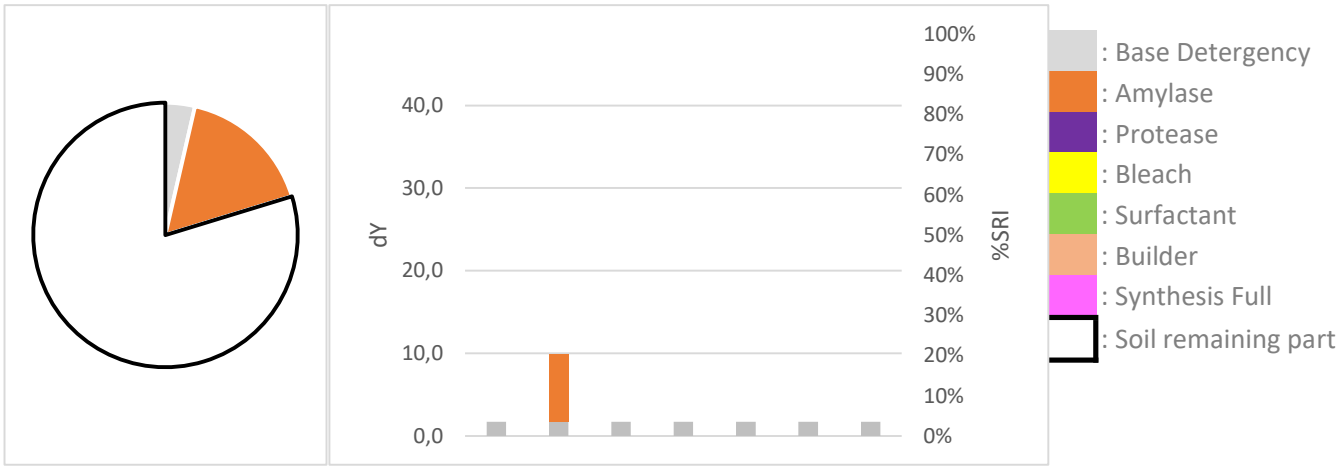
Quality Control



0

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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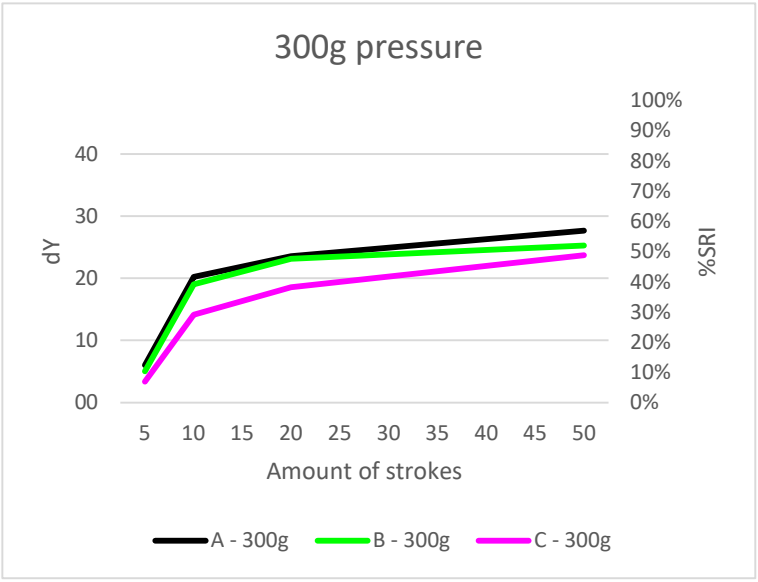
Professional cleaning detergent comparison

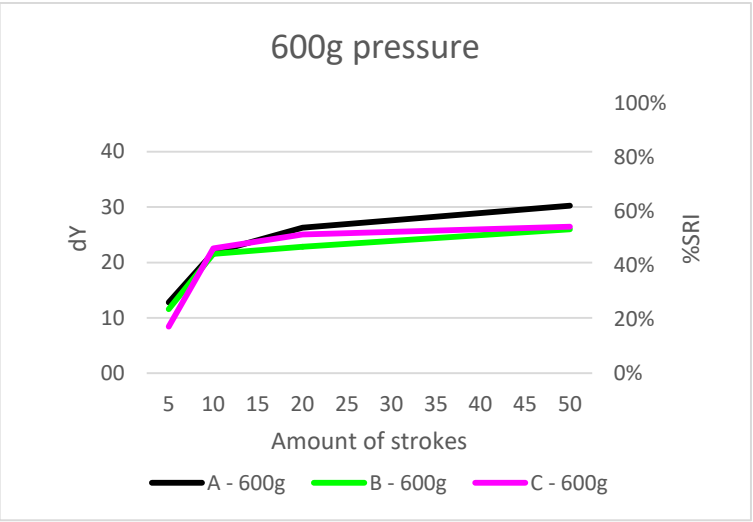
DM-476

H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

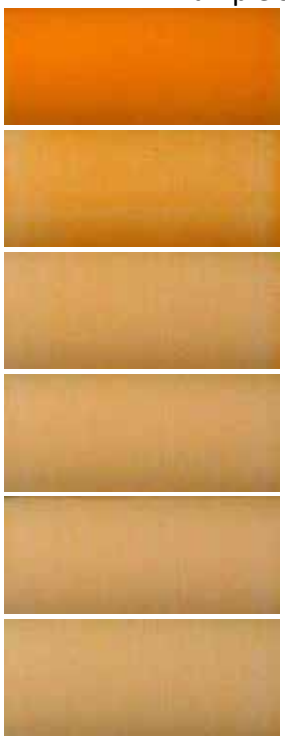
Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

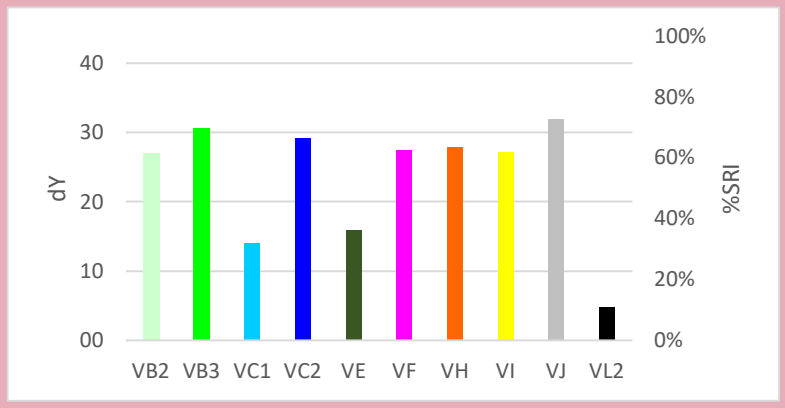
DM-77

Mixed (corn/rice) starch, coloured

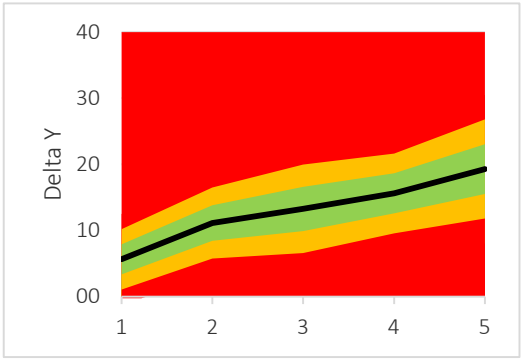
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-77	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-77	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-77	Steel plate, grated (DS I)	120 x 100 x 1	47,4
DG-77	Glass plate, grated (DG I)	120 x 100 x 2	59,4

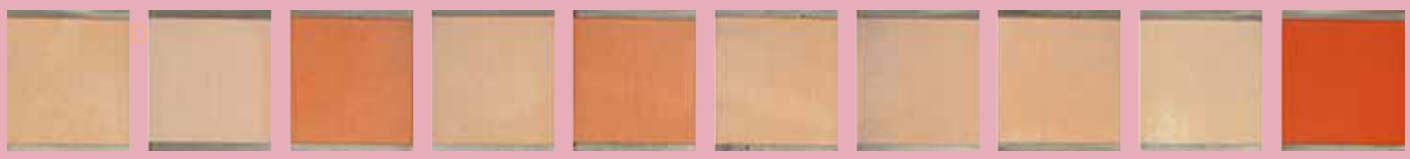
Autodish detergent comparison



Quality Control

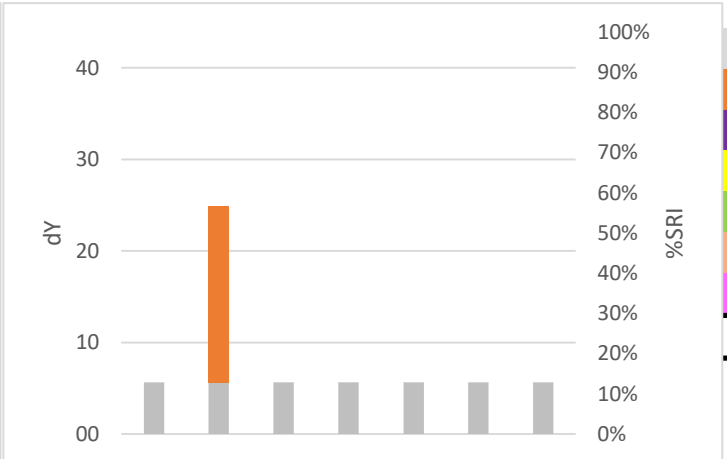


CFT-GSM D + amylase



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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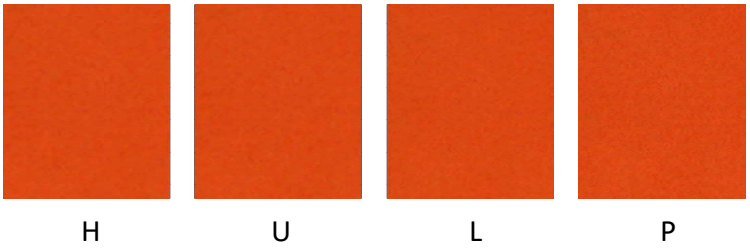
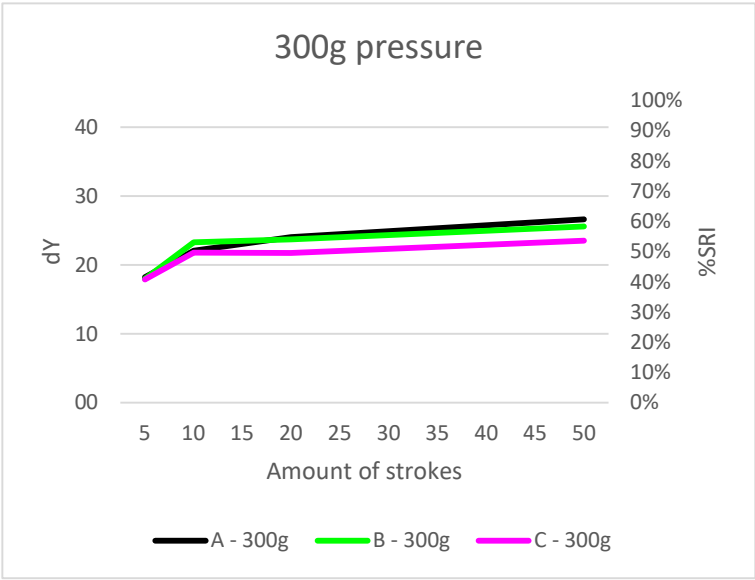
Professional cleaning detergent comparison

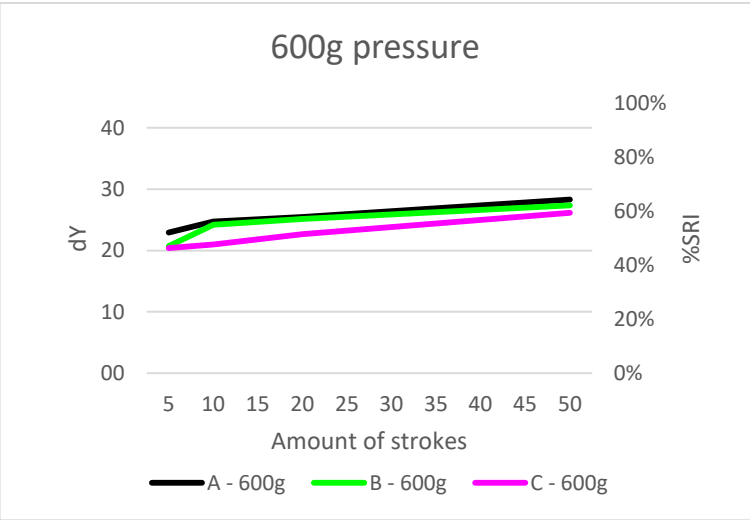


DM-77

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

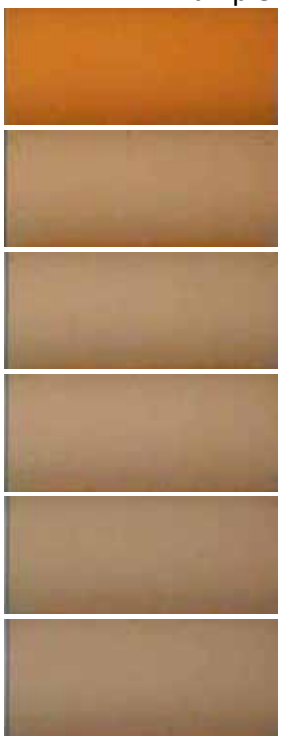
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

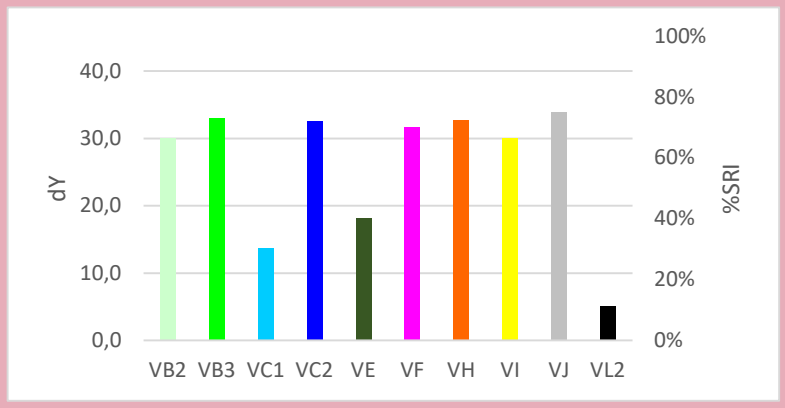
DM-177

Mixed (corn/rice) starch, coloured, extra severe

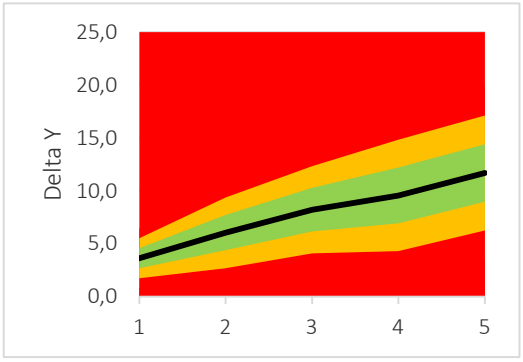
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-177	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-177	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DG-177	Glass plate, grated (DG I)	120 x 100 x 2	59,4

Autodish detergent comparison



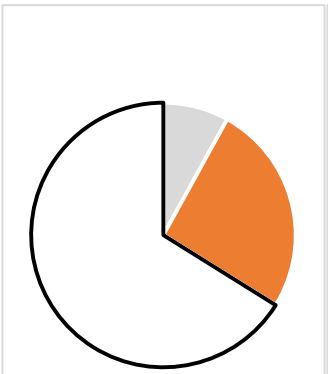
Quality Control

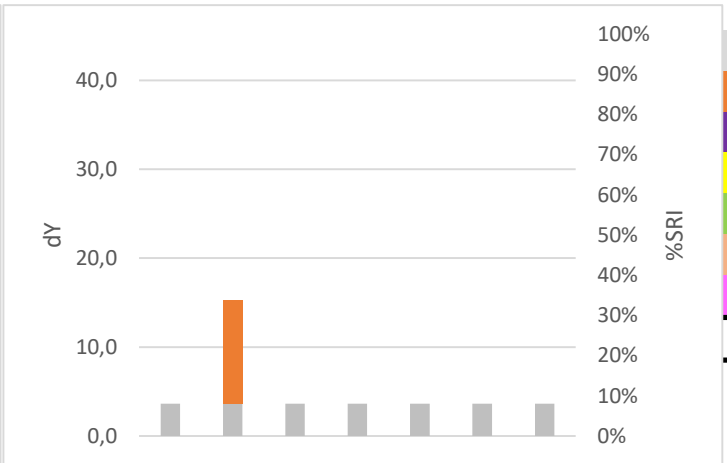


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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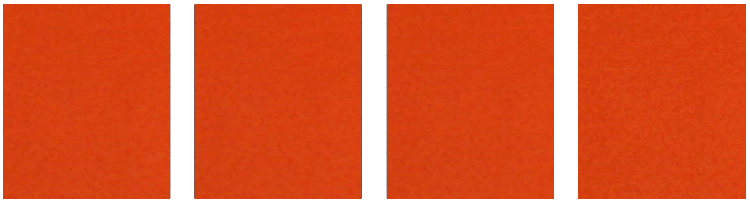
Professional cleaning detergent comparison

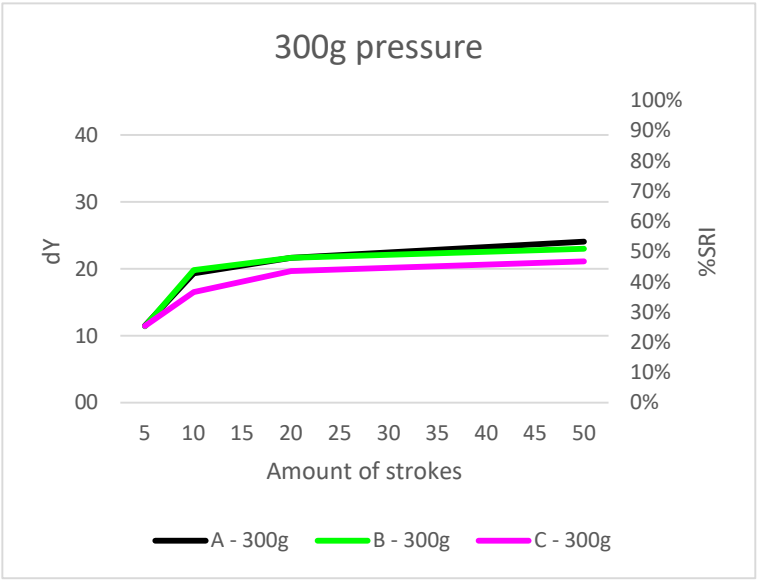
DM-177

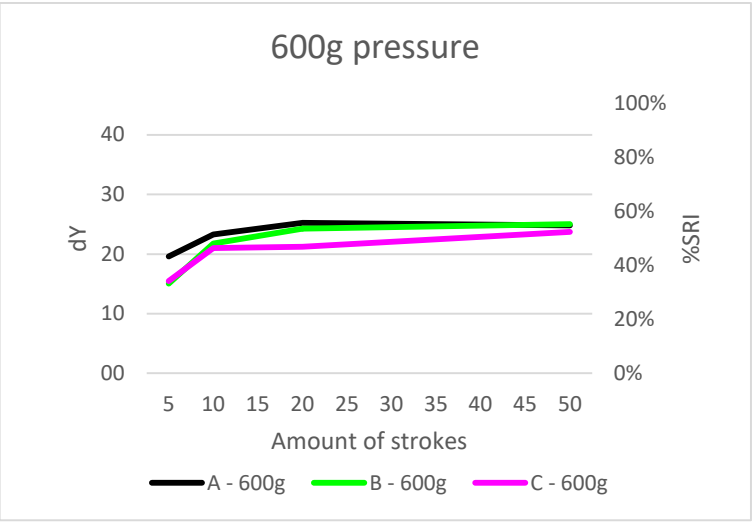


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

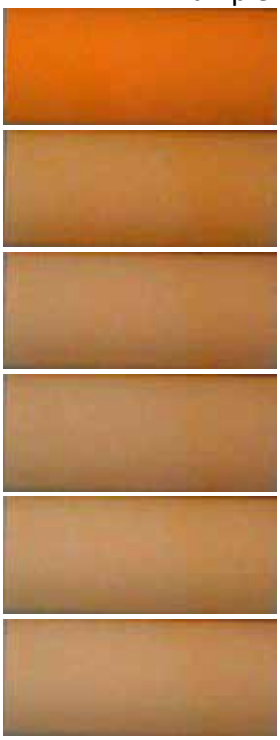
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

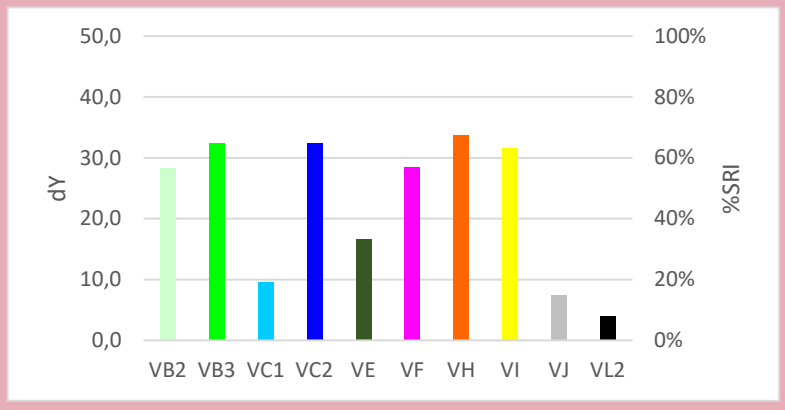
DM-277

Mixed (corn/rice) starch, coloured, double soil load

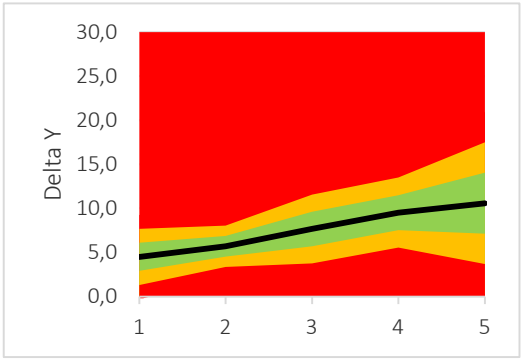
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-277	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-277	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DG-277	Glass plate, grated (DG I)	120 x 100 x 2	59,4

Autodish detergent comparison



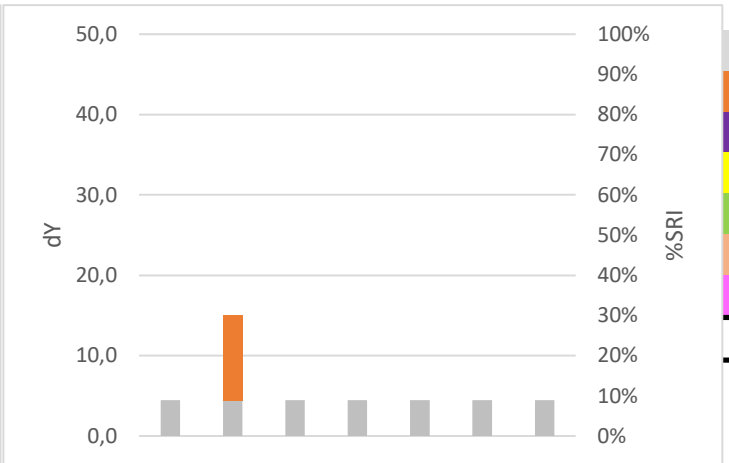
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

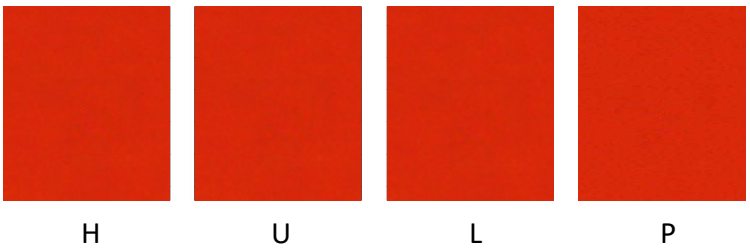


: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

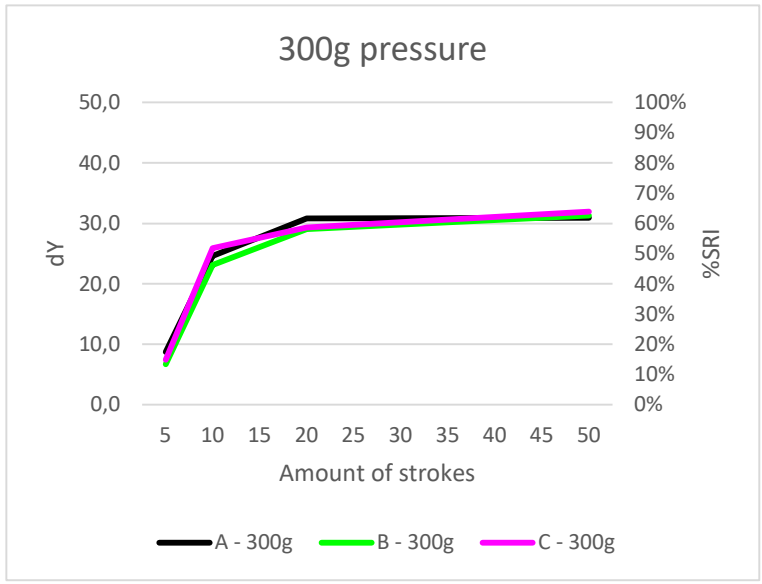
Professional cleaning detergent comparison

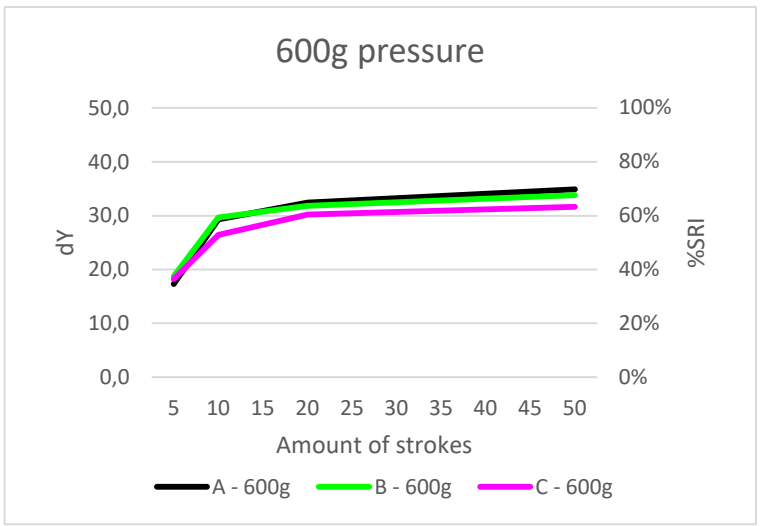
DM-277



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

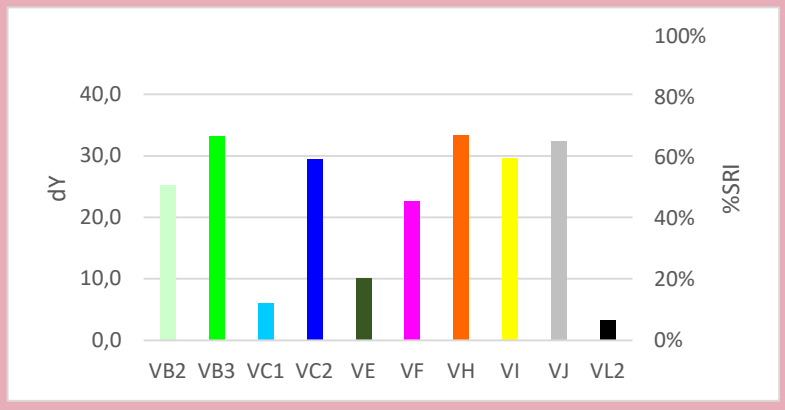
DM-377

Mixed (corn/rice) starch, coloured, triple soil load

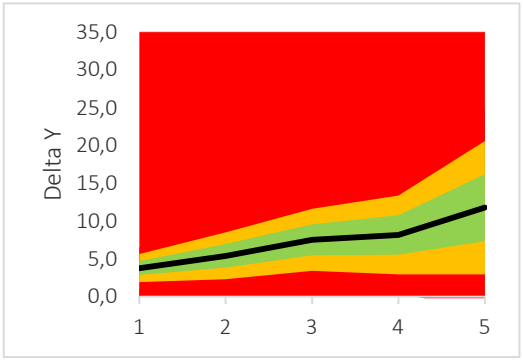
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-377	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-377	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DG-377	Glass plate, grated (DG I)	120 x 100 x 2	59,4

Autodish detergent comparison



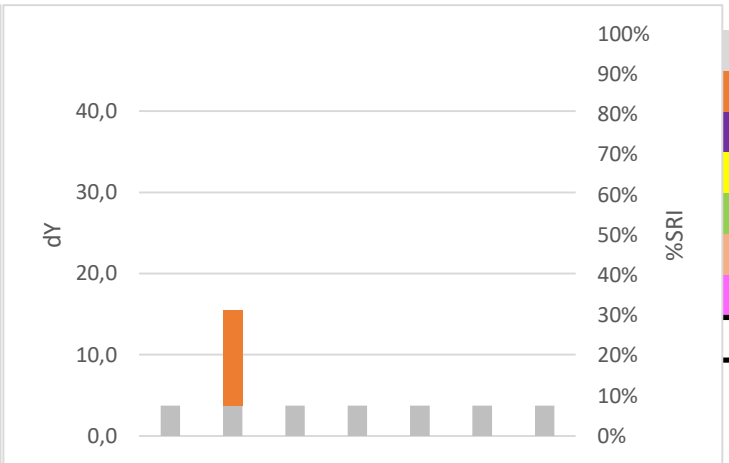
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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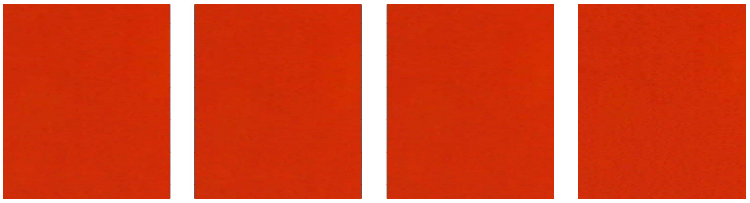
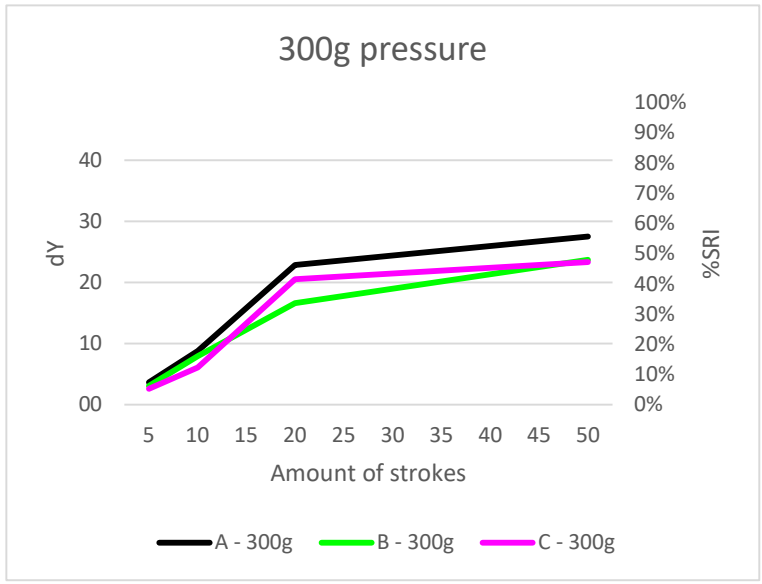
Professional cleaning detergent comparison

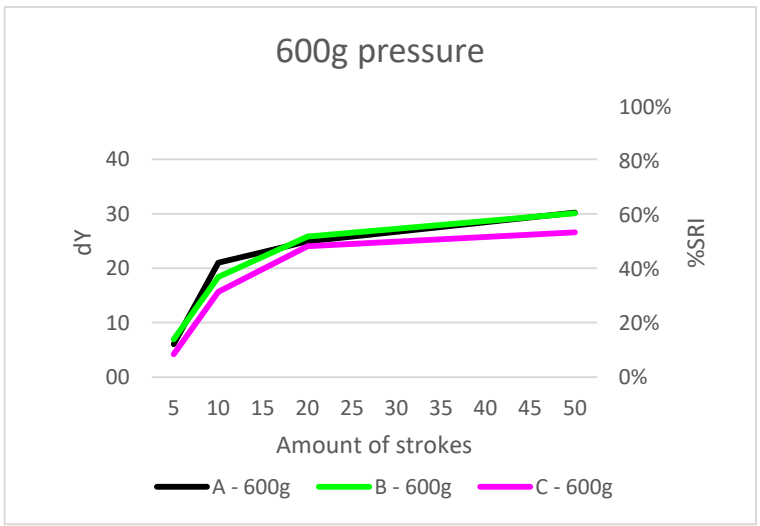
DM-377



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

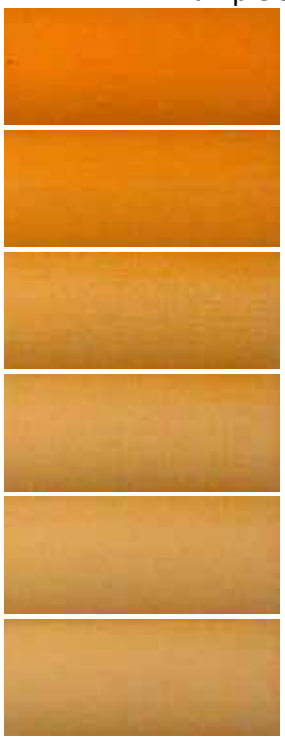
Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

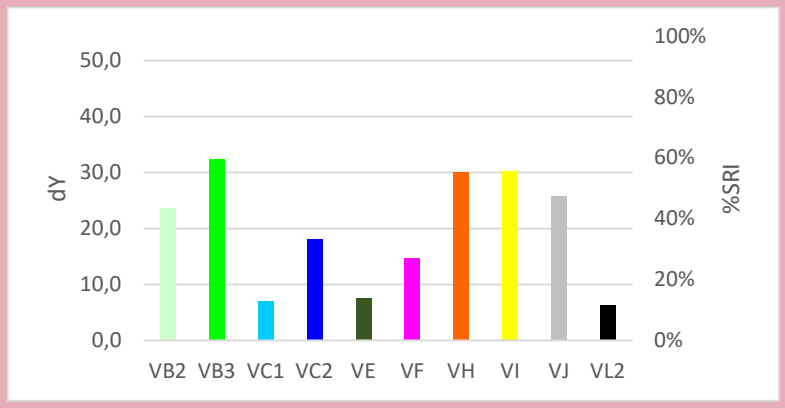
DM-477

Mixed (corn/rice) starch, coloured, heavy load extra stubborn

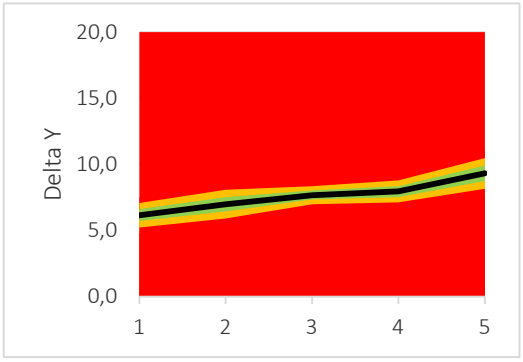
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★☆☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-477	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



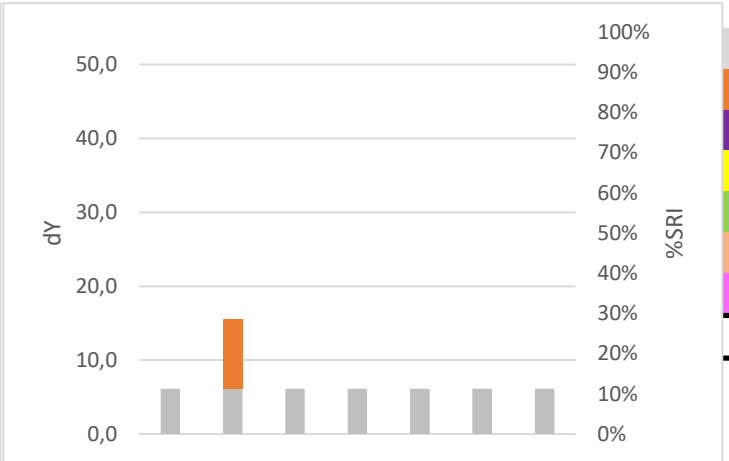
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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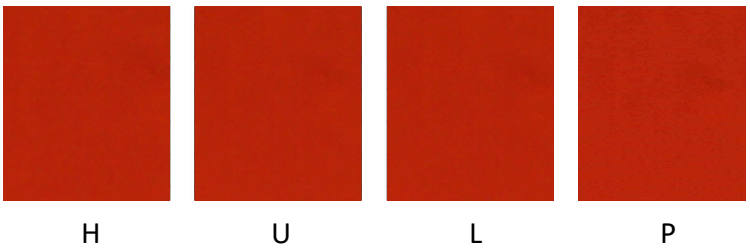
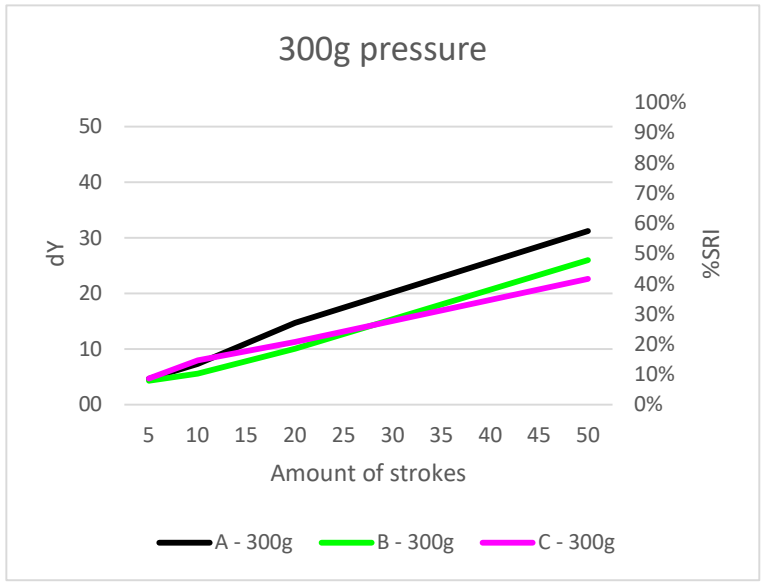
Professional cleaning detergent comparison

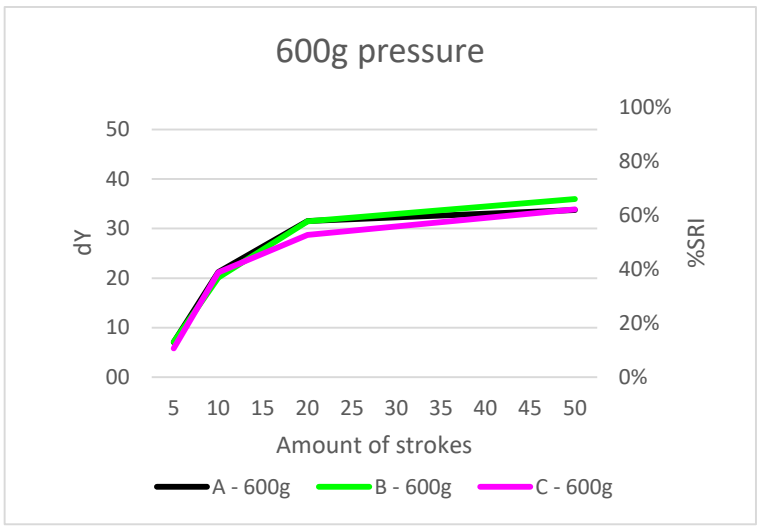
DM-477



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

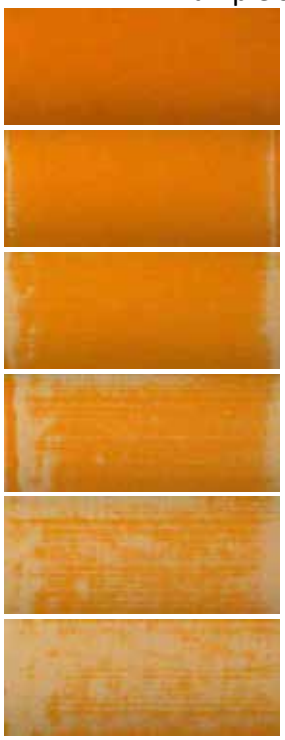
Hand dishwash detergent comparison





Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★☆☆☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

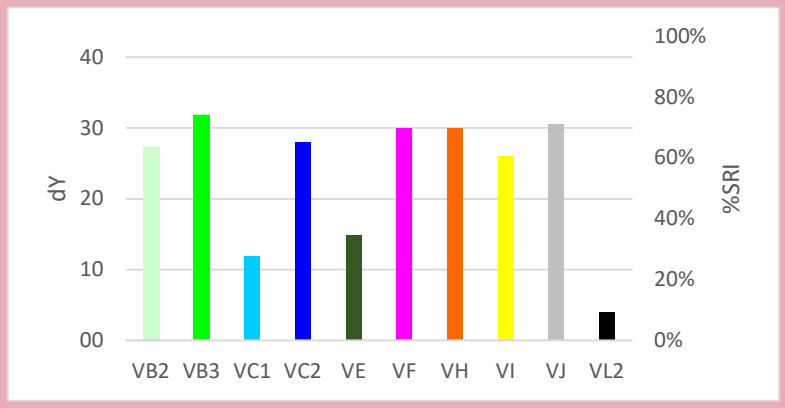
DM-78

Rice starch, coloured

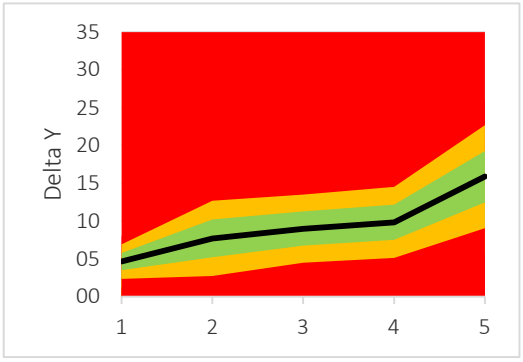
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-78	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-78	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-78	Steel plate, grated (DS I)	120 x 100 x 1	47,4
DG-78	Glass plate, grated (DG I)	120 x 100 x 2	59,4

Autodish detergent comparison



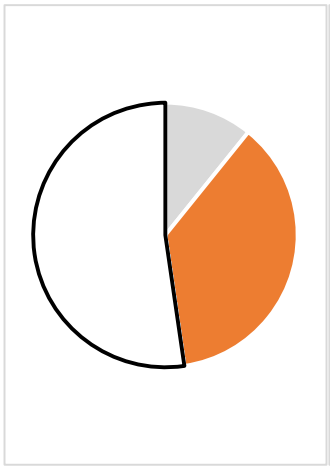
Quality Control

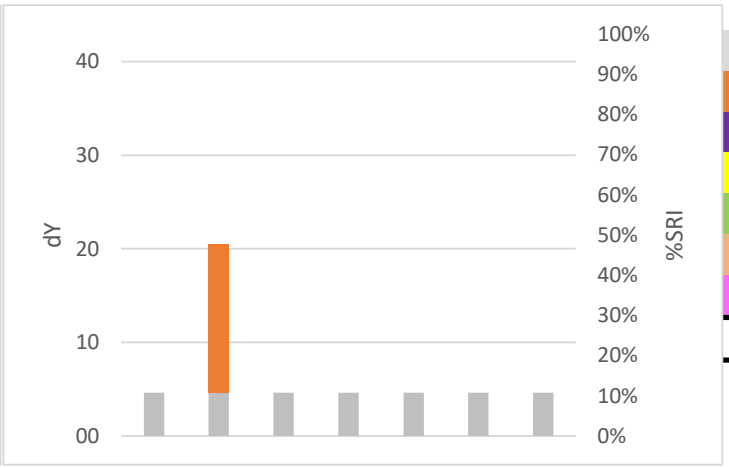


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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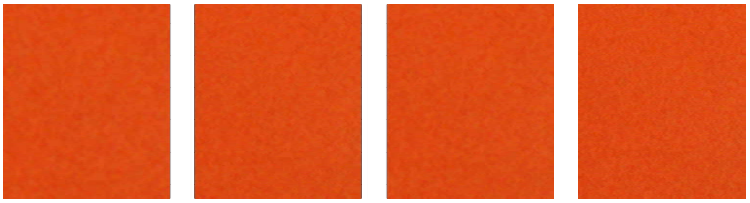
Professional cleaning detergent comparison

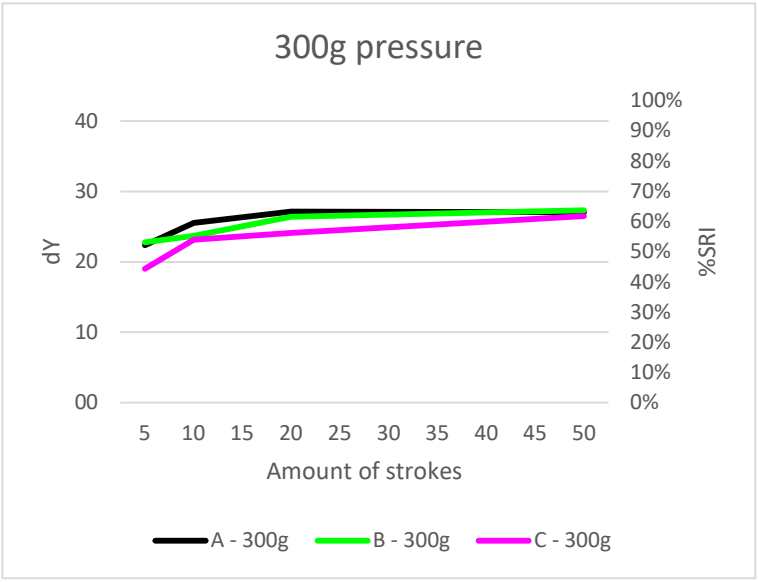
DM-78

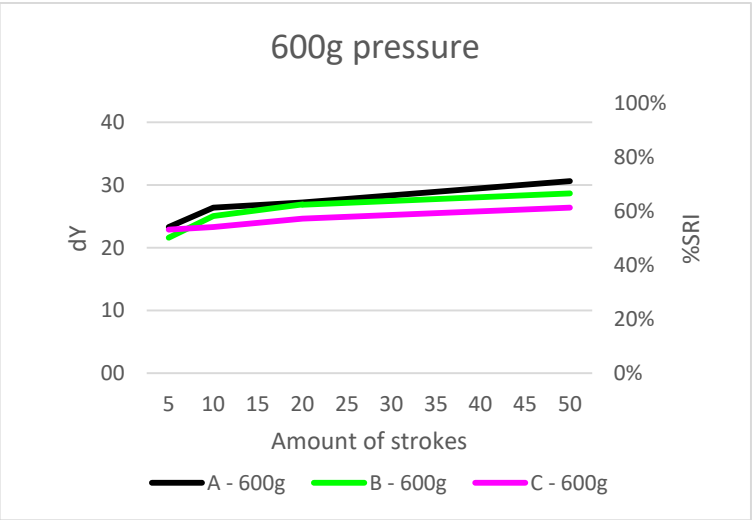


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures

1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

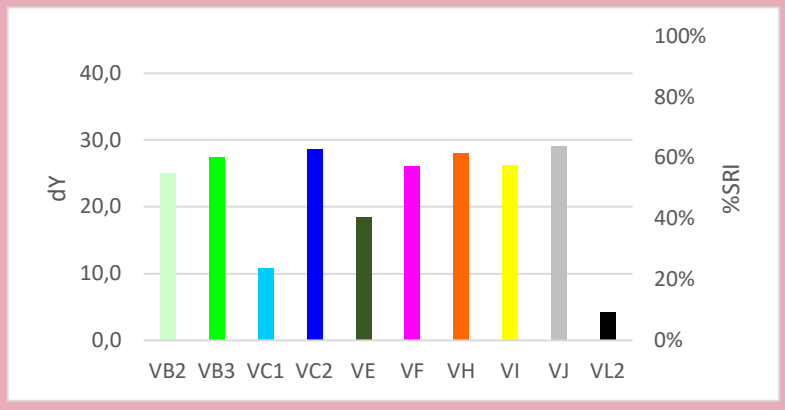
DM-178

Rice starch, coloured, extra severe

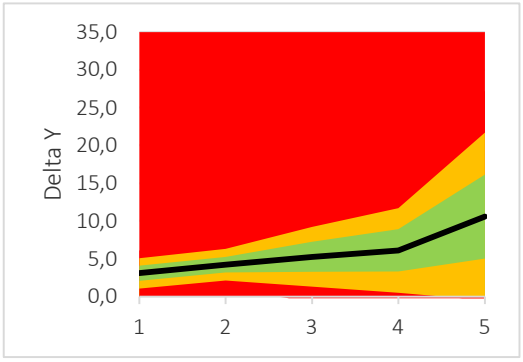
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-178	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-178	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



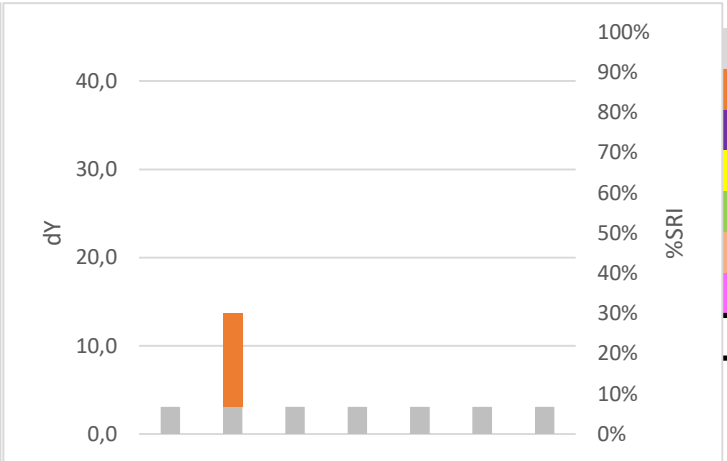
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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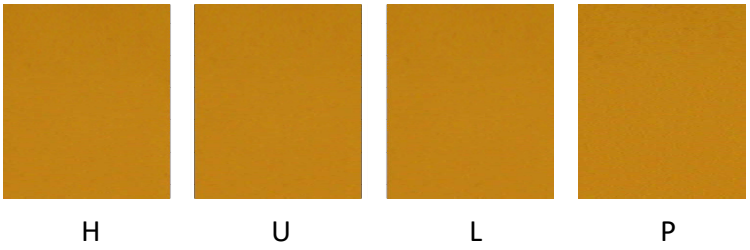
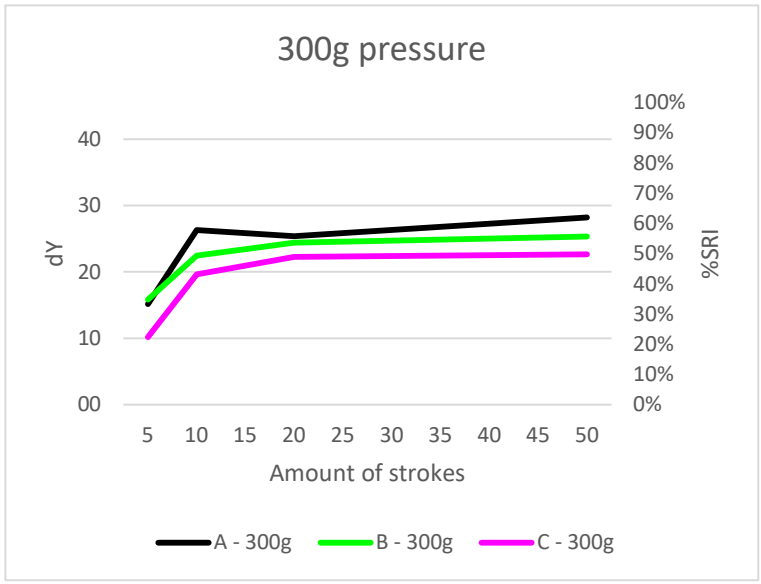
Professional cleaning detergent comparison

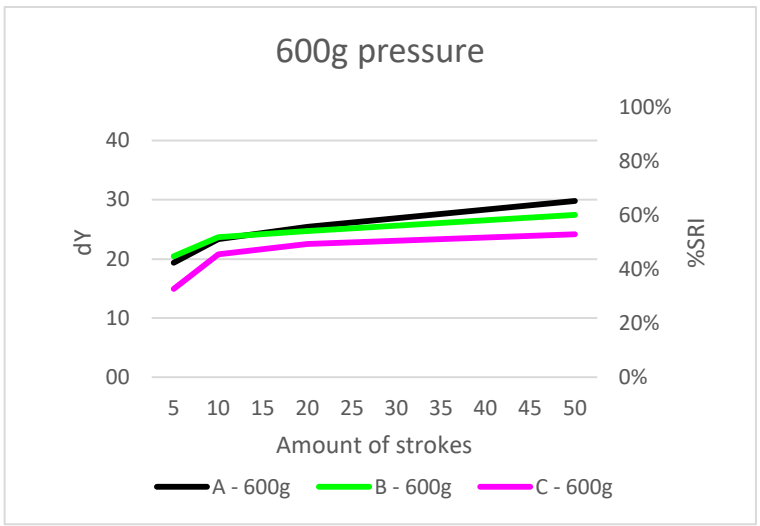


DM-178

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

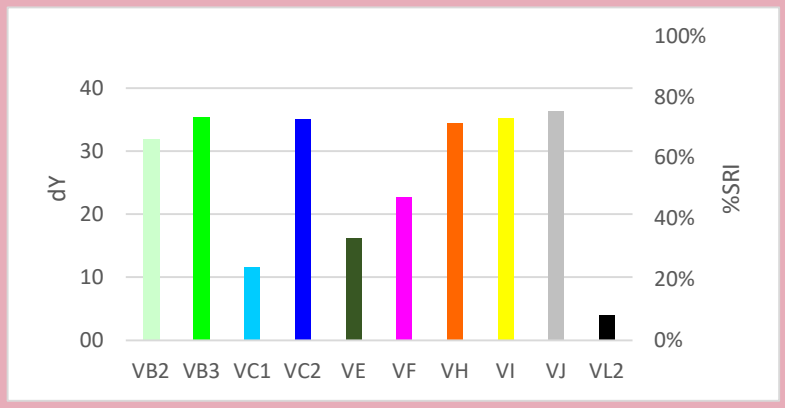
DM-278

Rice starch, coloured, double soiled

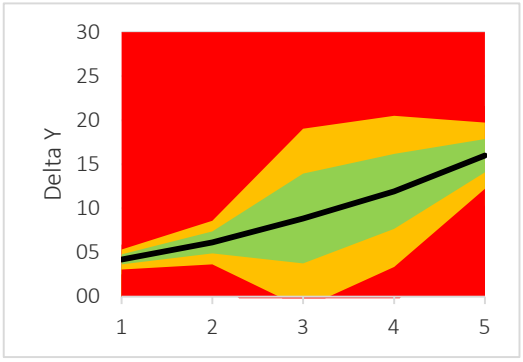
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-278	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-278	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



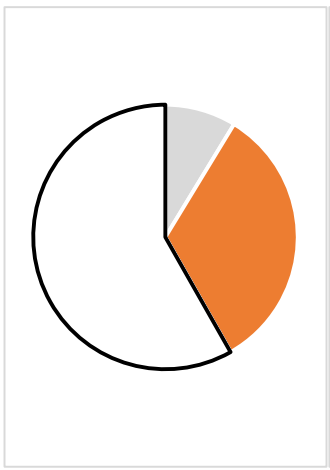
Quality Control

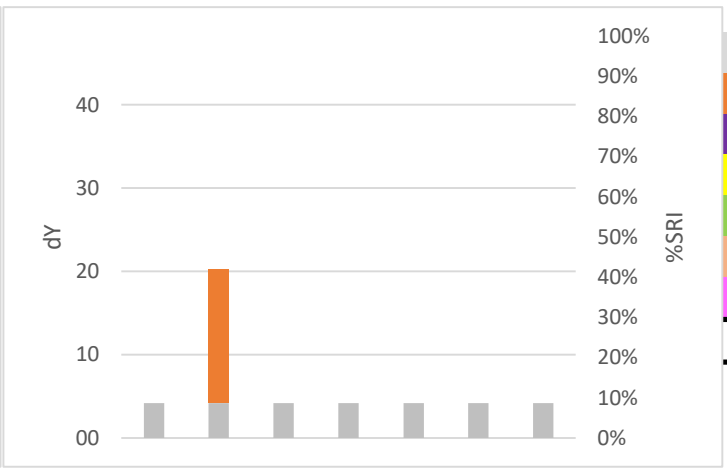


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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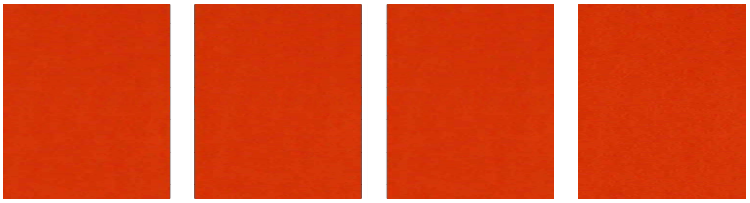
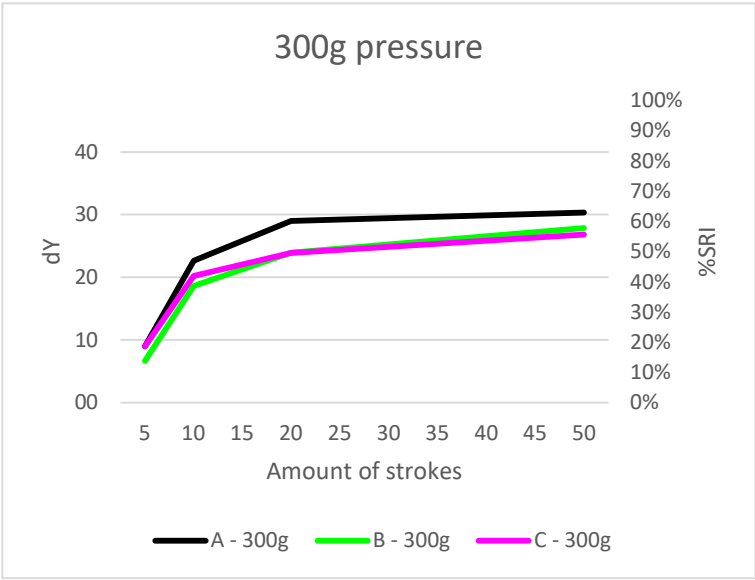
Professional cleaning detergent comparison

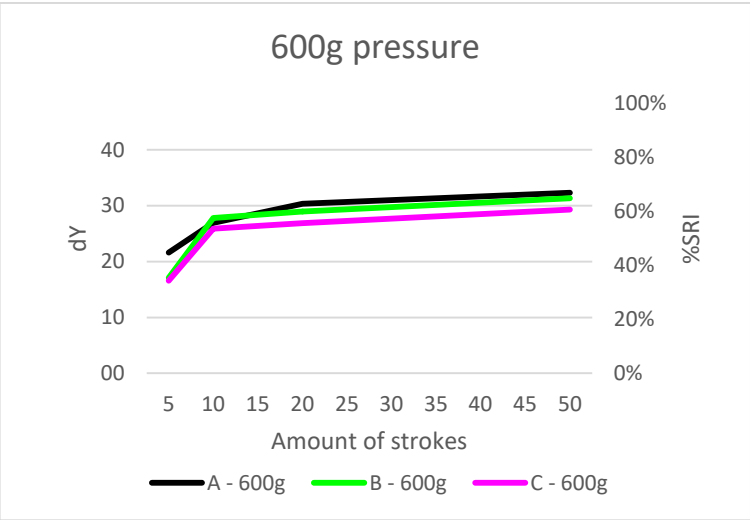
DM-278



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	20x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

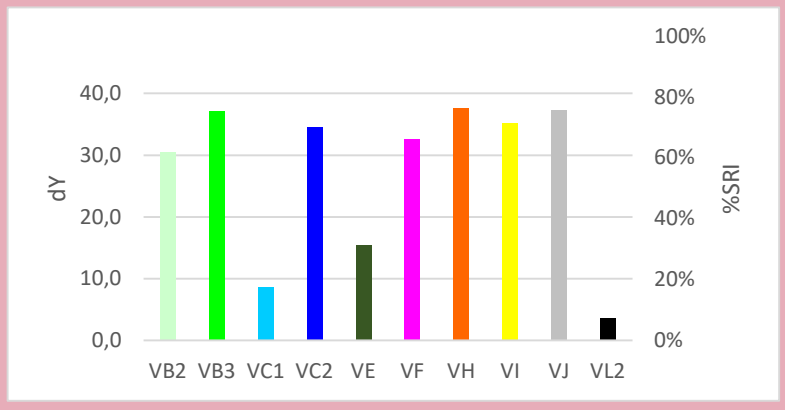
DM-378

Rice starch, coloured, triple soil load

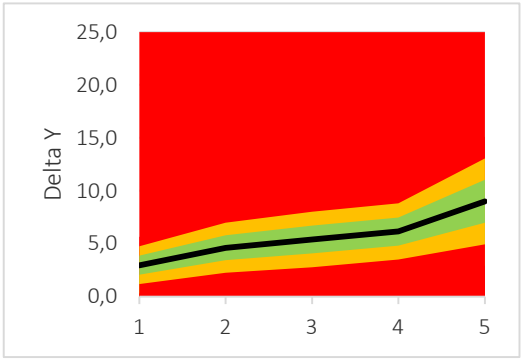
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-378	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-378	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



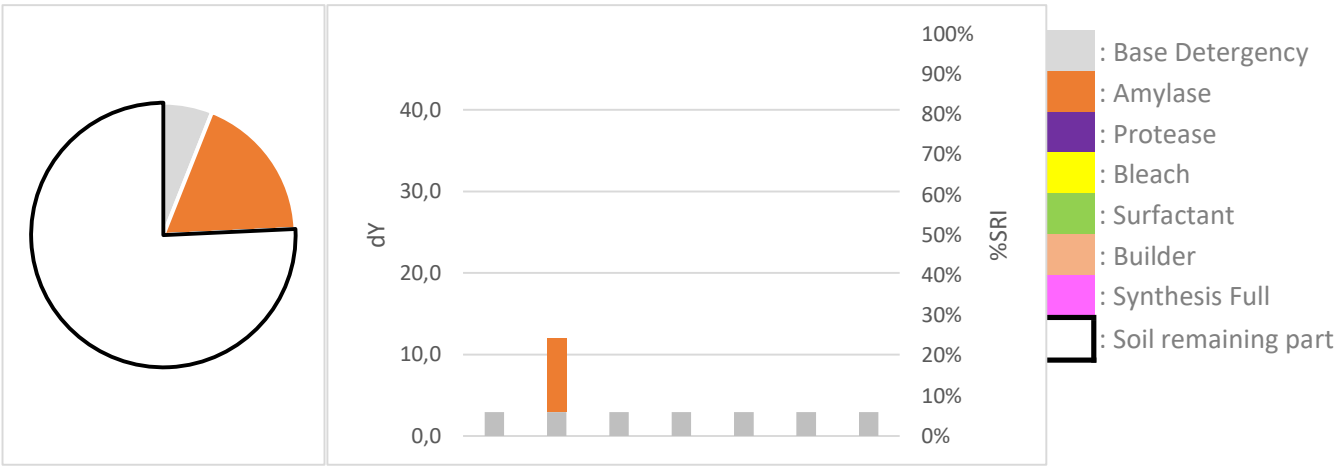
Quality Control



CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

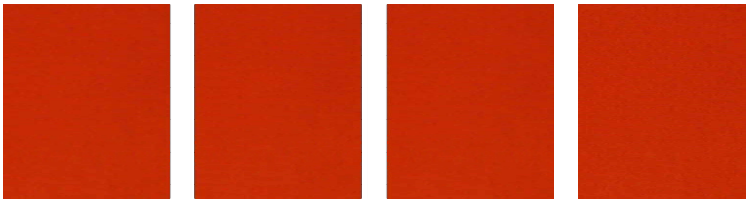
Autodish detergent component response



This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

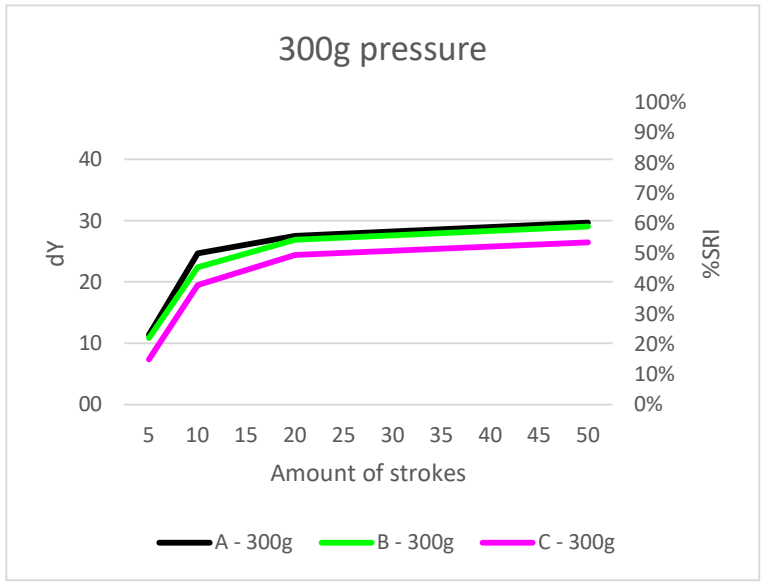
Professional cleaning detergent comparison

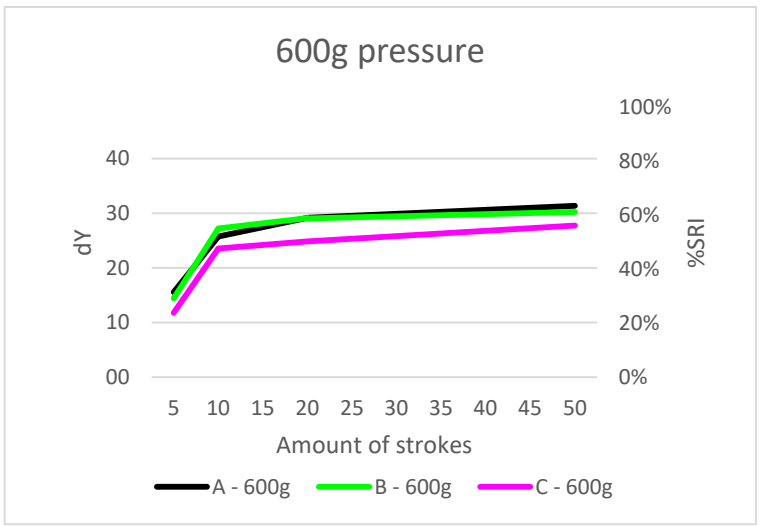
DM-378



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

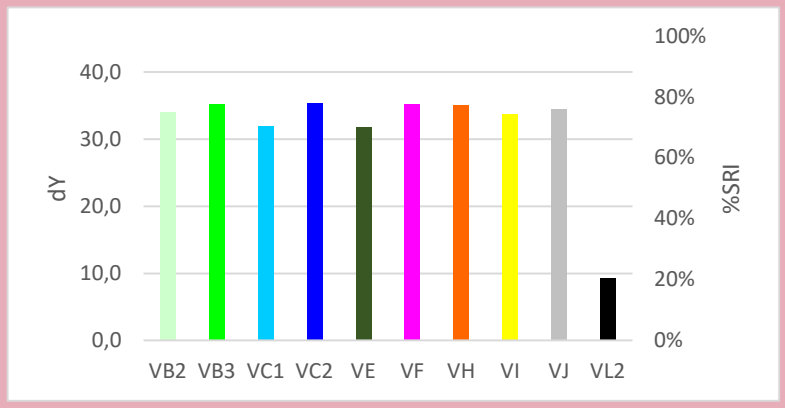
DM-79

Potato starch, coloured

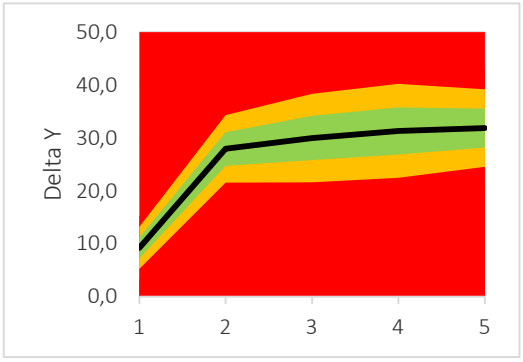
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-79	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0
DT-79	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



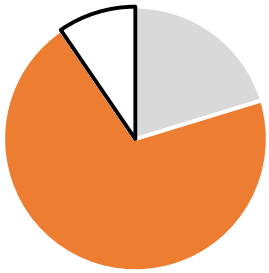
Quality Control

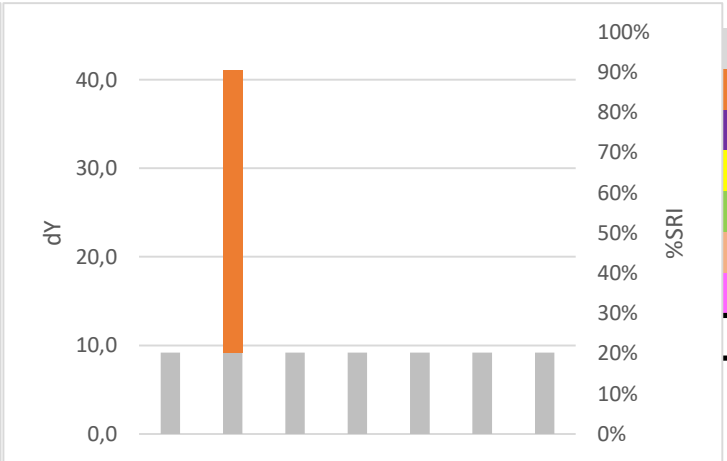


CFT-GSM D + amylase

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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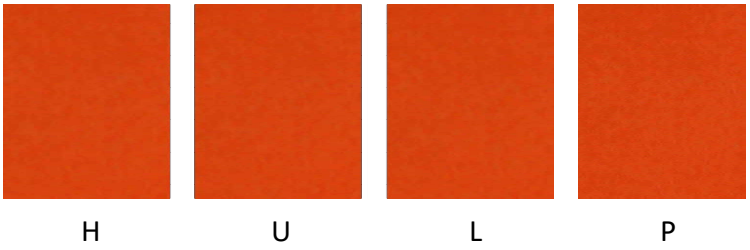
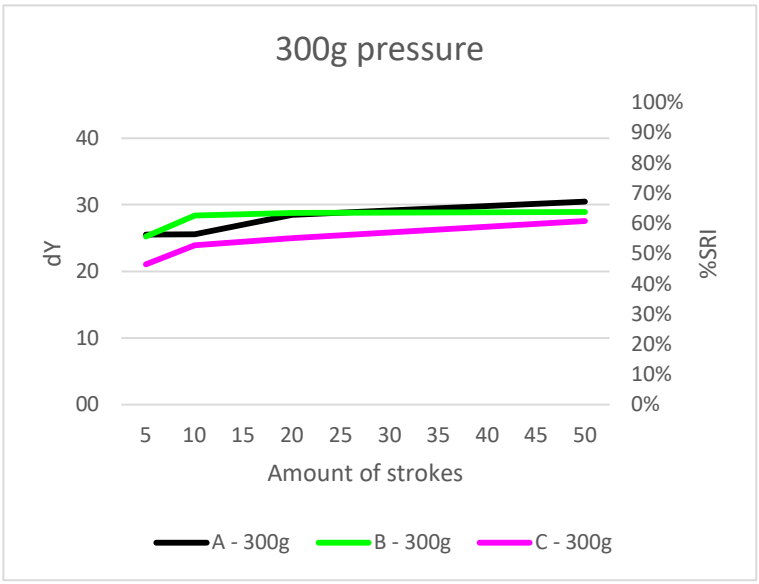
Professional cleaning detergent comparison

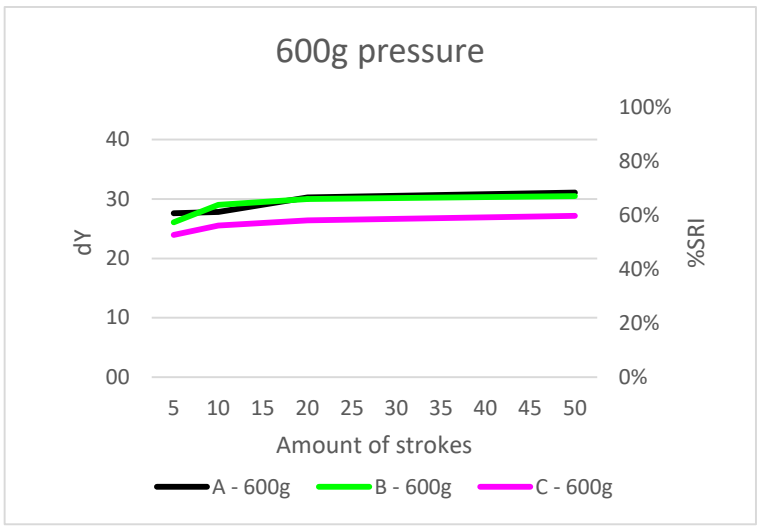
DM-79



Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Hand dishwash detergent comparison





Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	SOAK

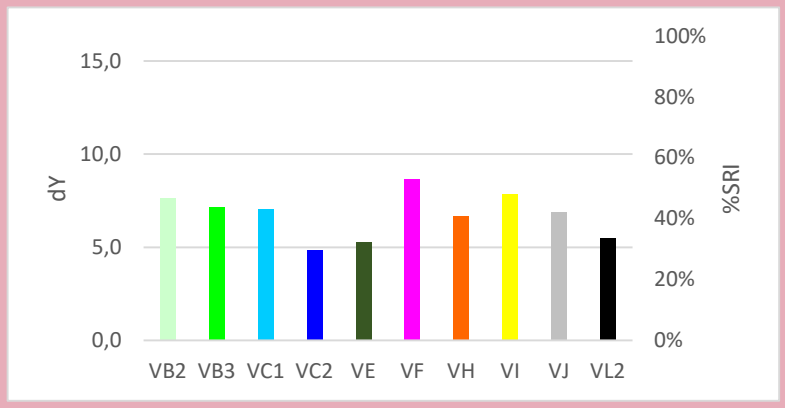
DM-81

Coffee

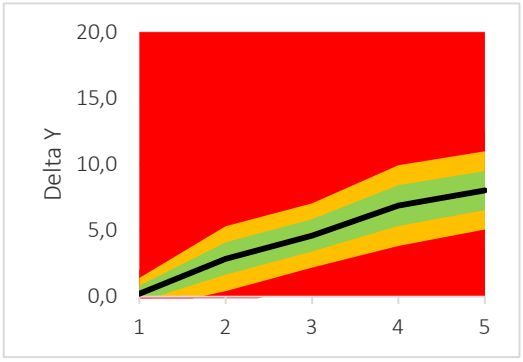
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-81	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



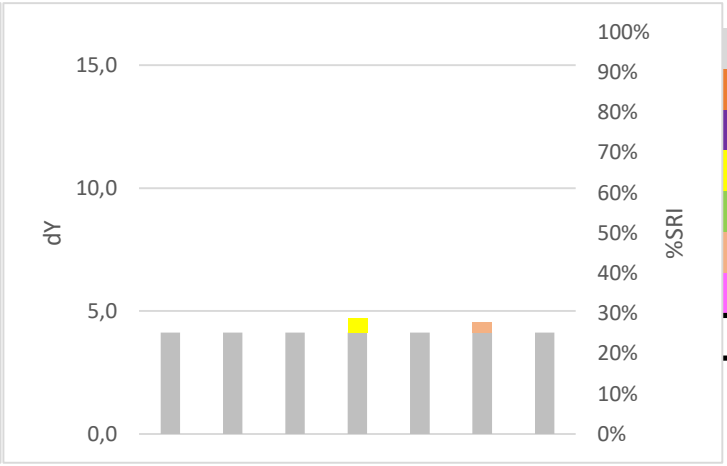
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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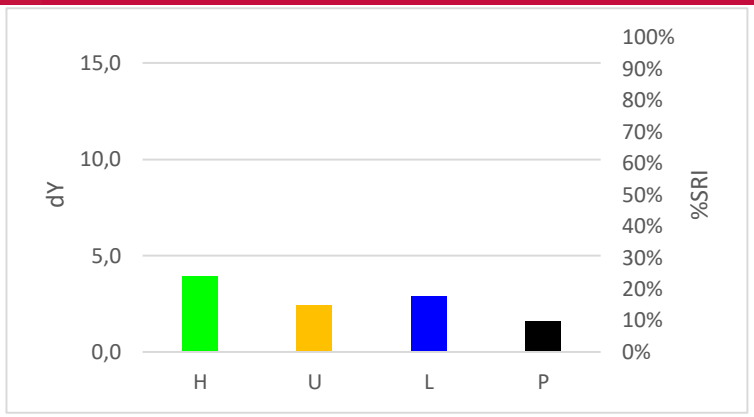
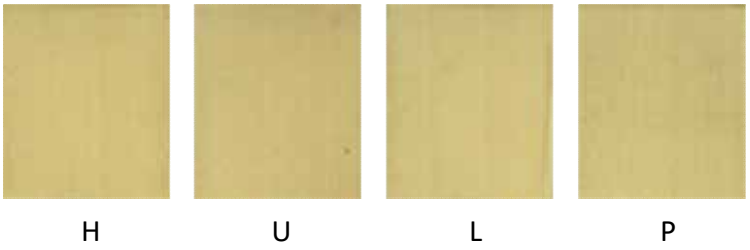
Professional cleaning detergent comparison

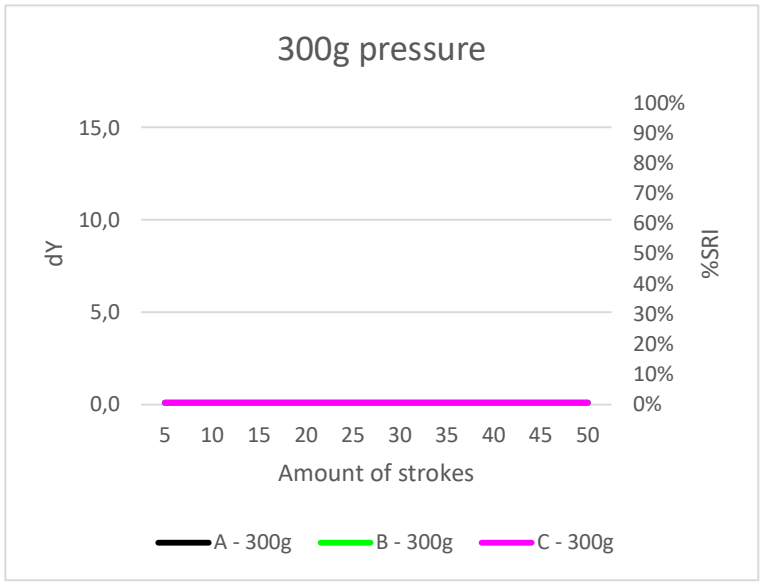


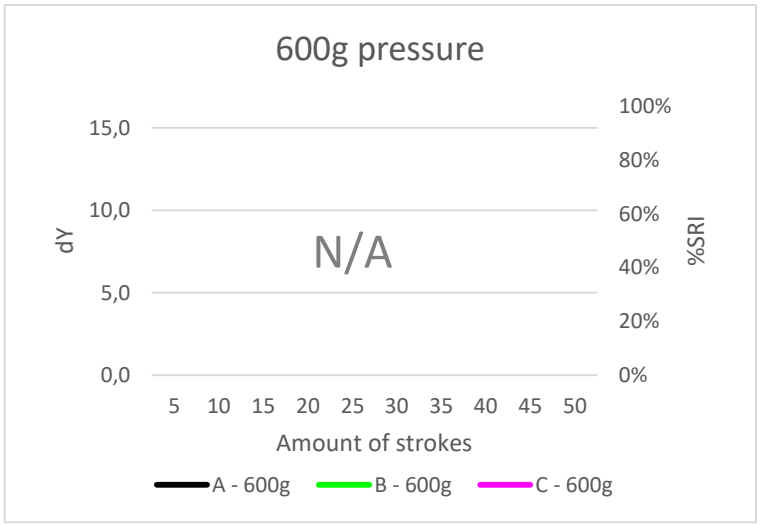
DM-81



Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

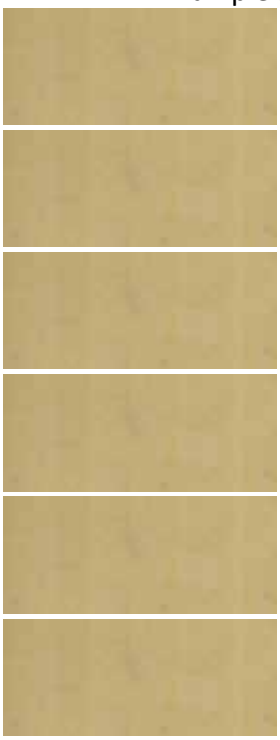
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

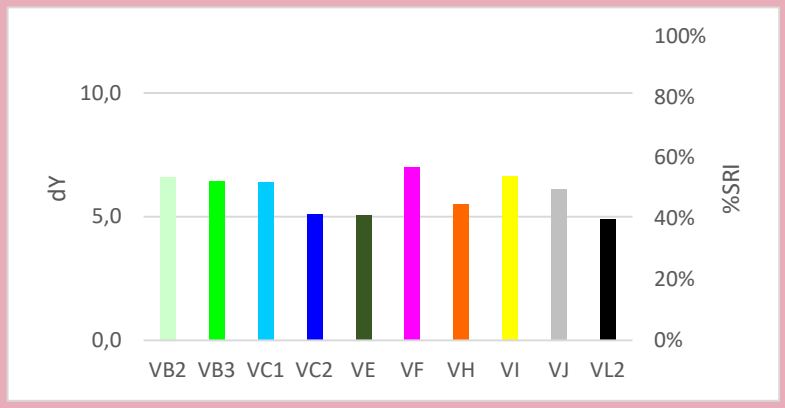
DM-82

Espresso coffee

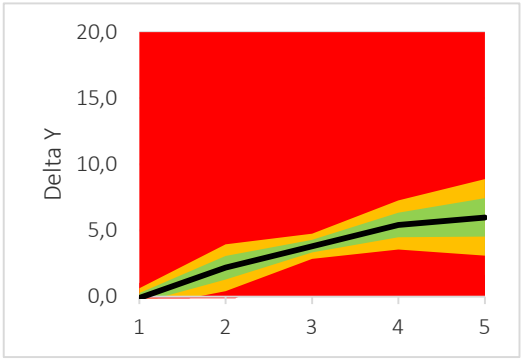
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-82	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



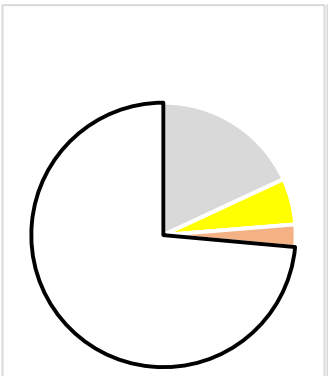
Quality Control

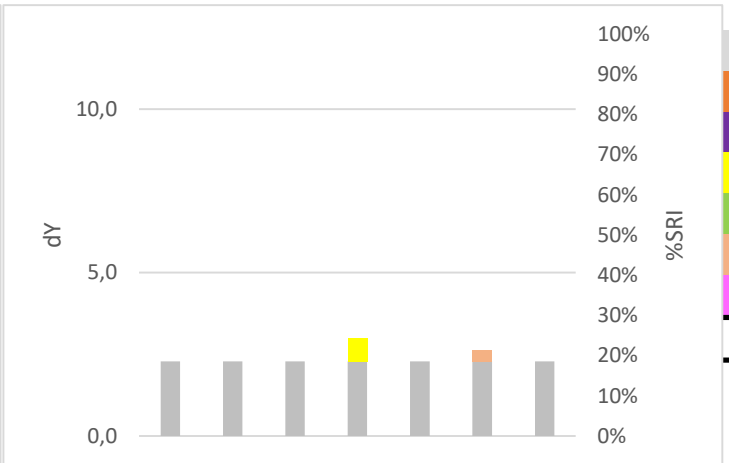


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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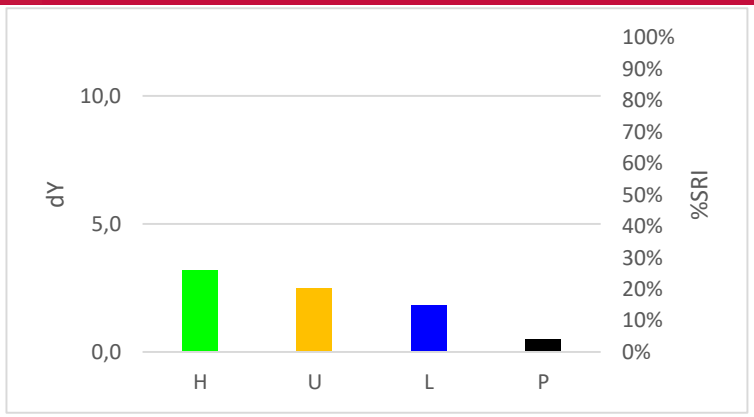
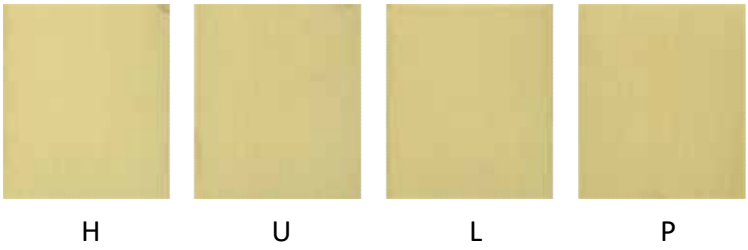
Professional cleaning detergent comparison

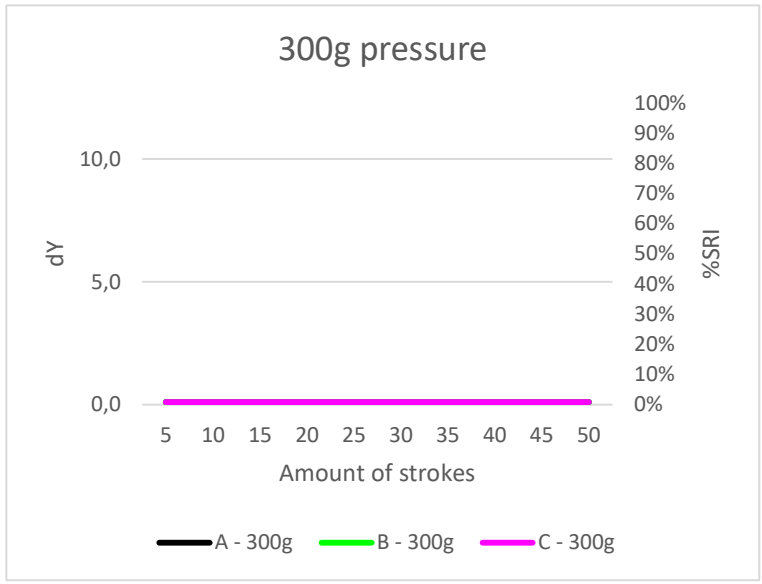


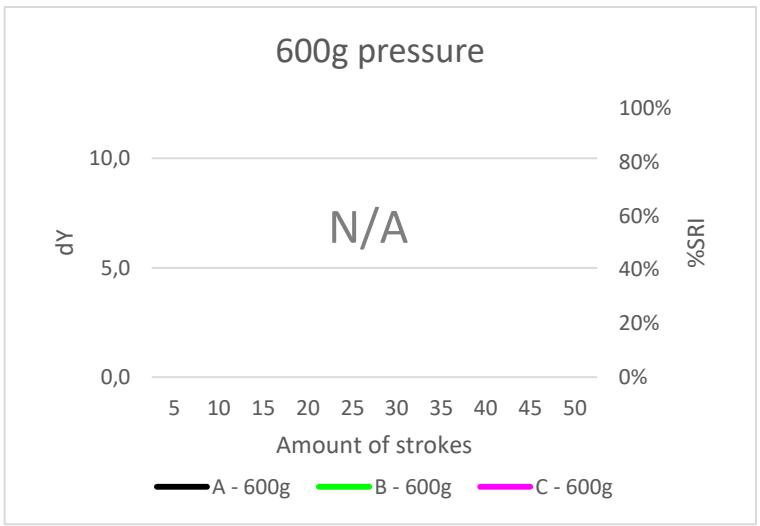
DM-82



Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

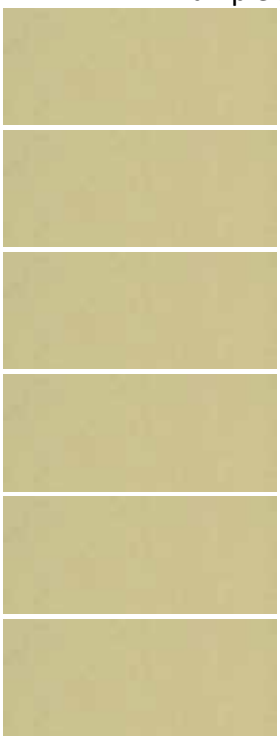
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

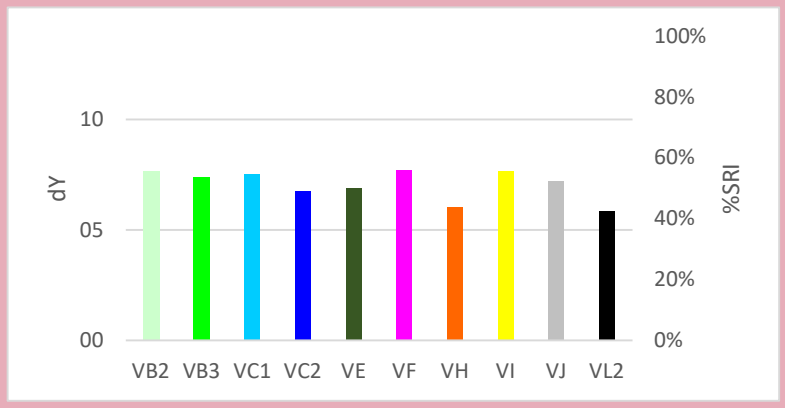
DM-83

Coffee with milk

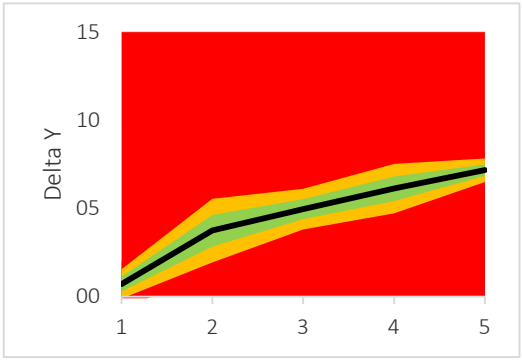
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-83	Melamine resin tile, grated top (DM I)	120 x 100 x 1,2	84,0

Autodish detergent comparison



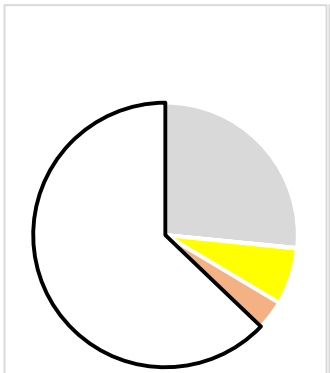
Quality Control

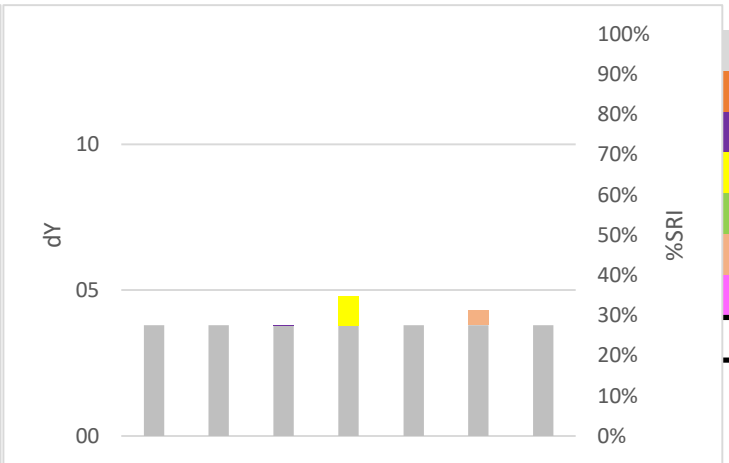


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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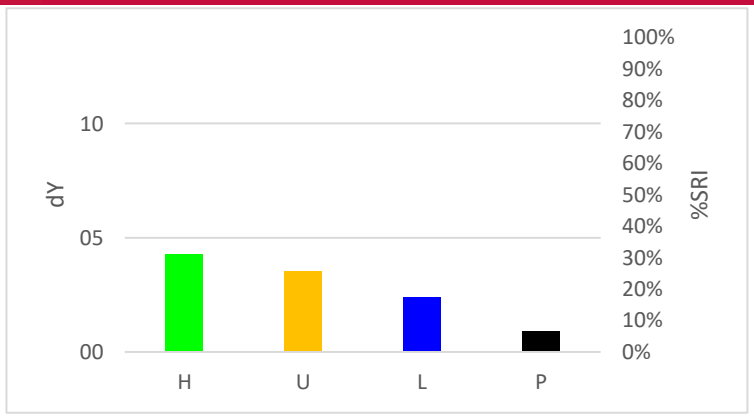
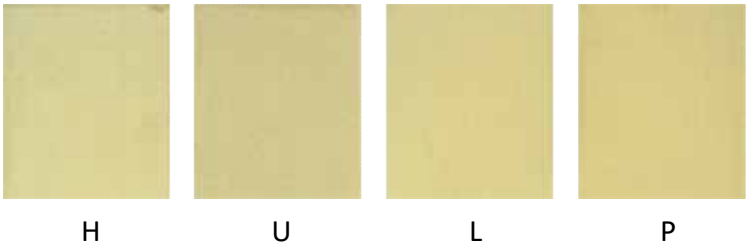
Professional cleaning detergent comparison

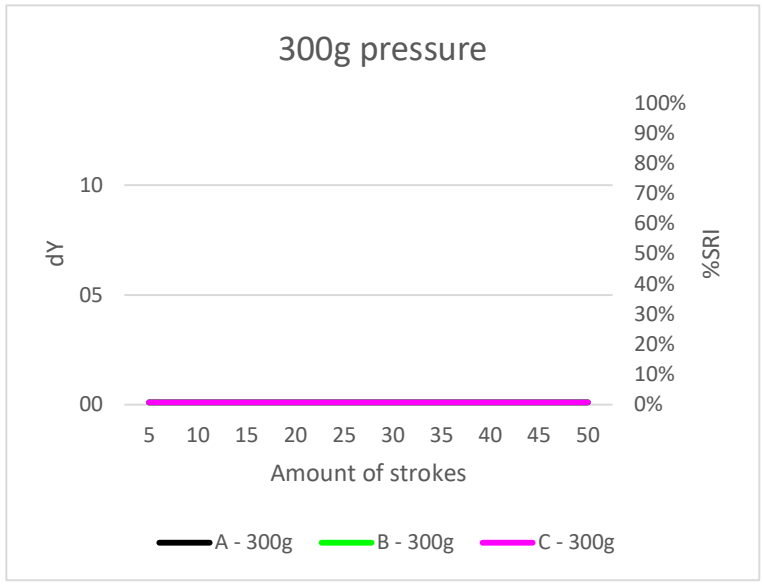
DM-83

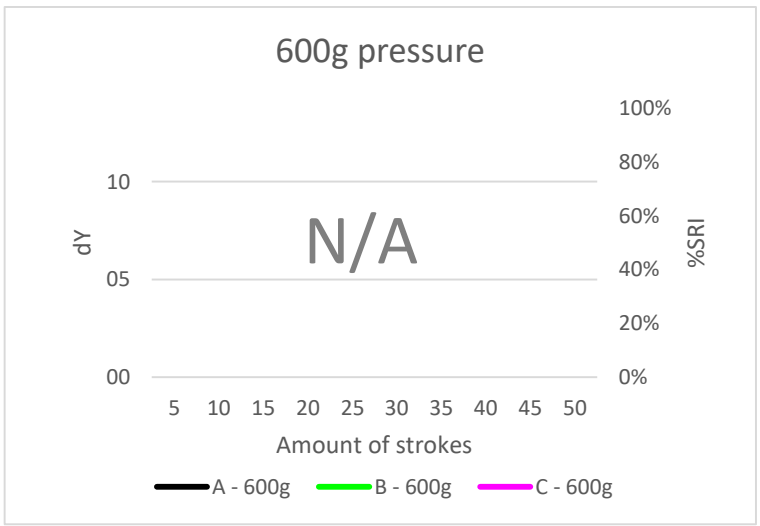




Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

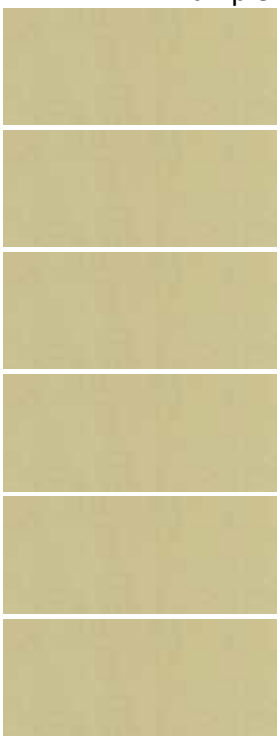
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

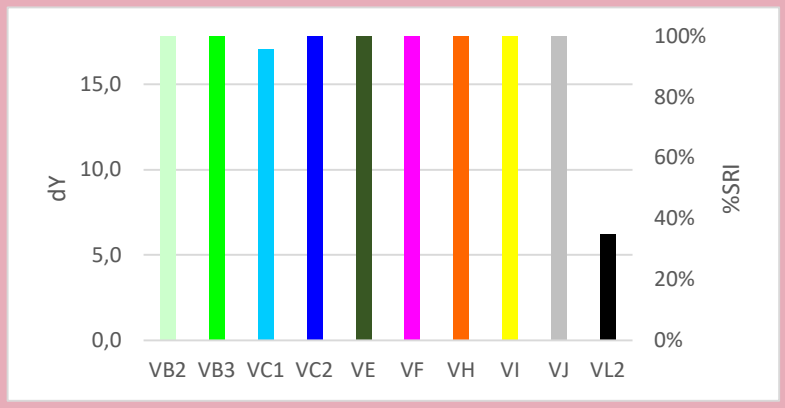
DM-91

Minced meat

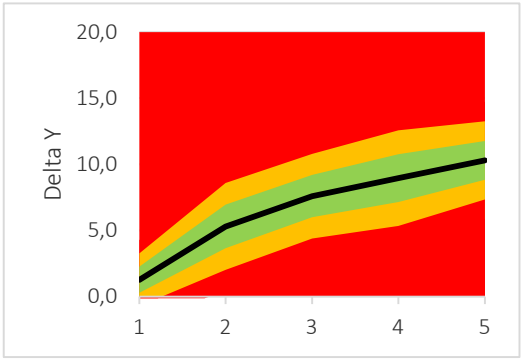
Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★
Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-91	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-91	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



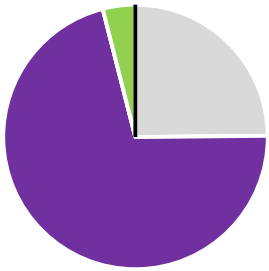
Quality Control

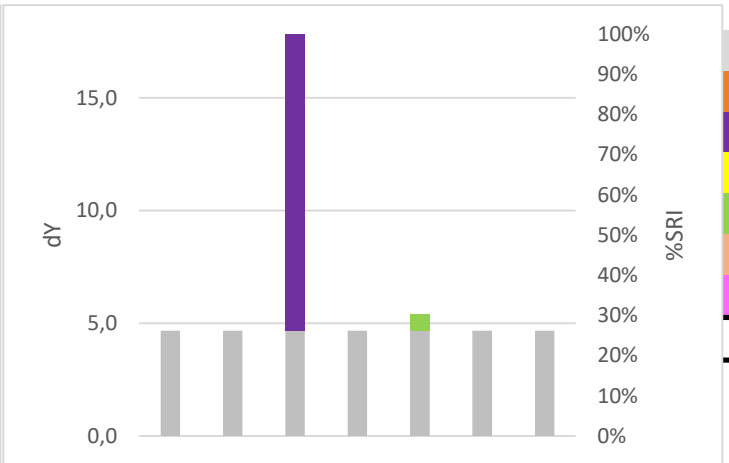


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



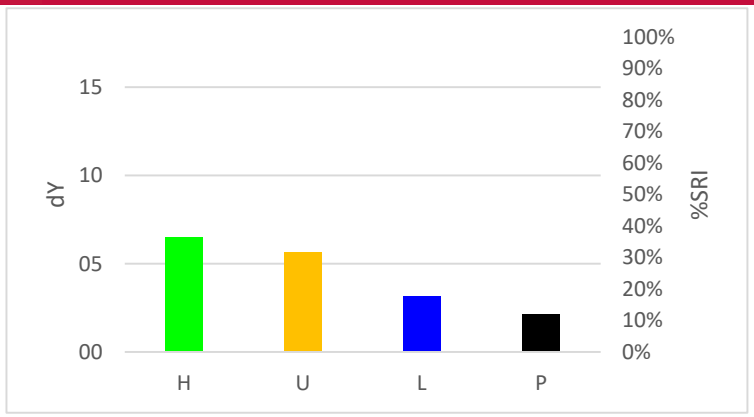


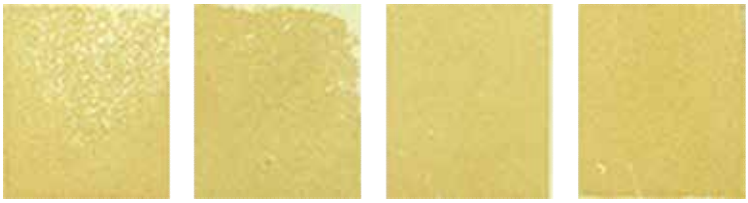
: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison

DM-91

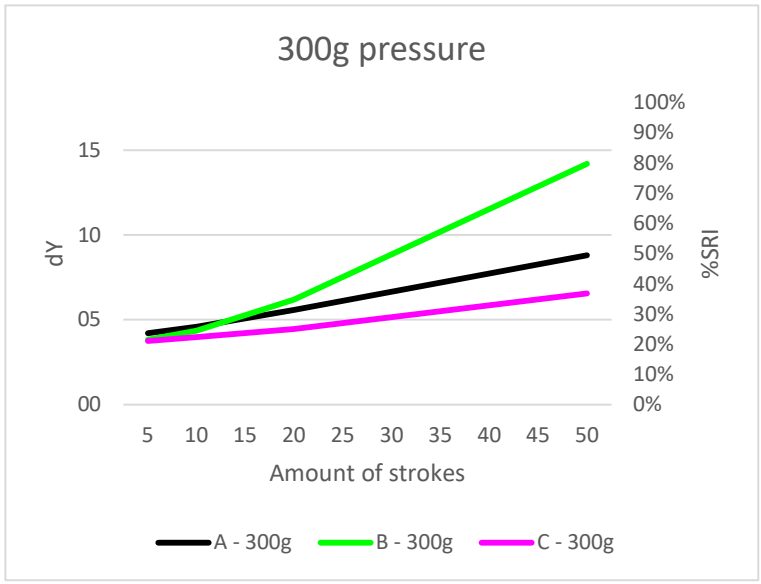


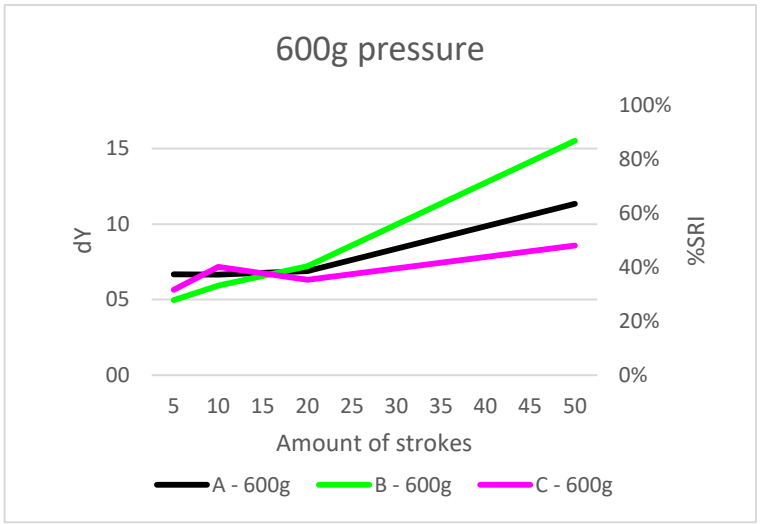


H U L P

Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

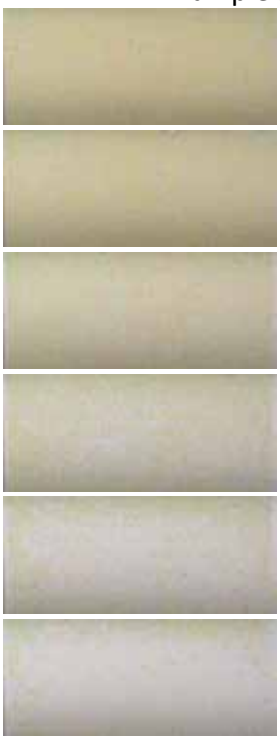
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

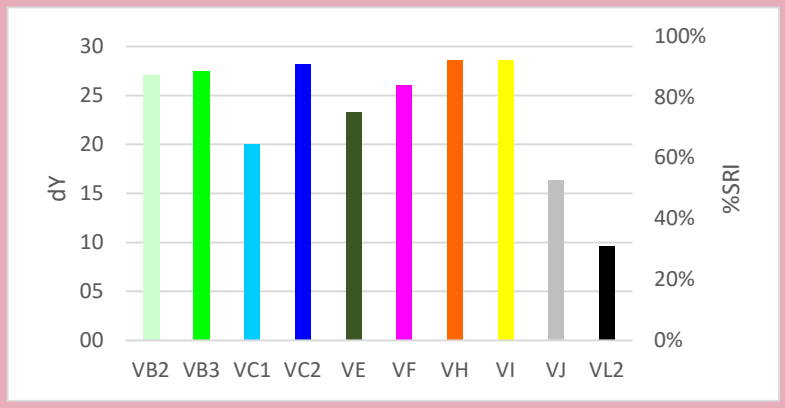
DM-92

Minced meat, double soil load

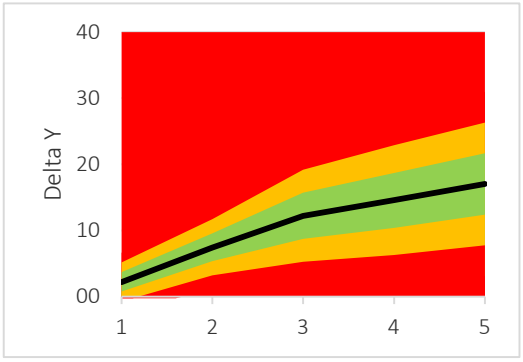
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-92	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-92	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



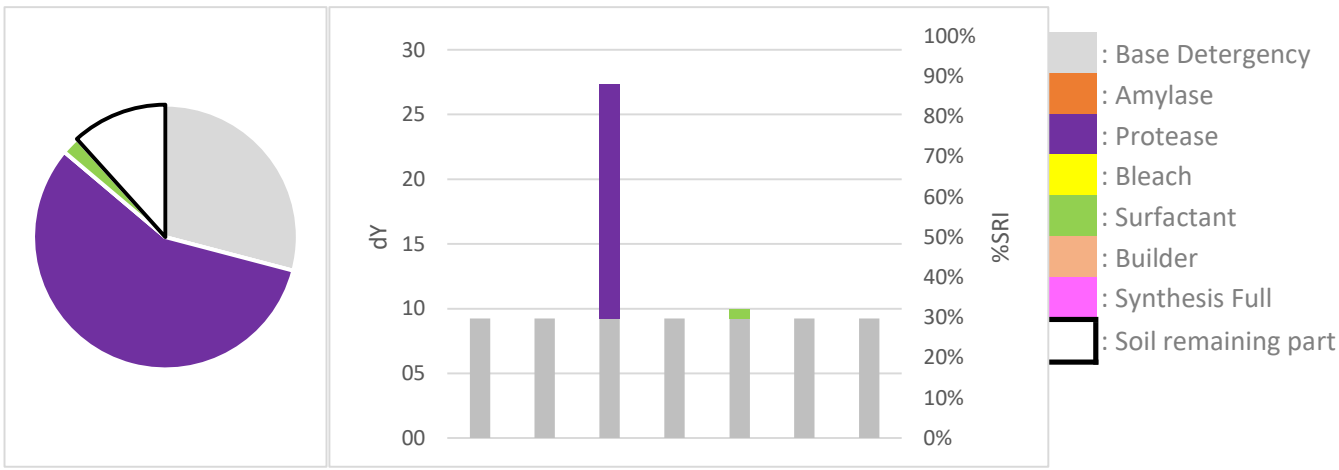
Quality Control



CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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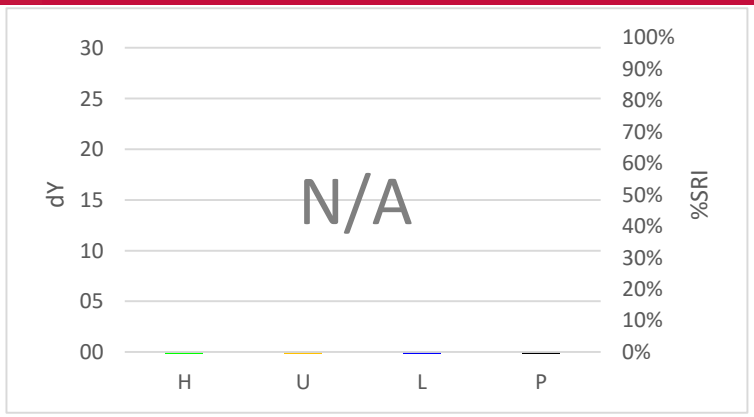
Professional cleaning detergent comparison



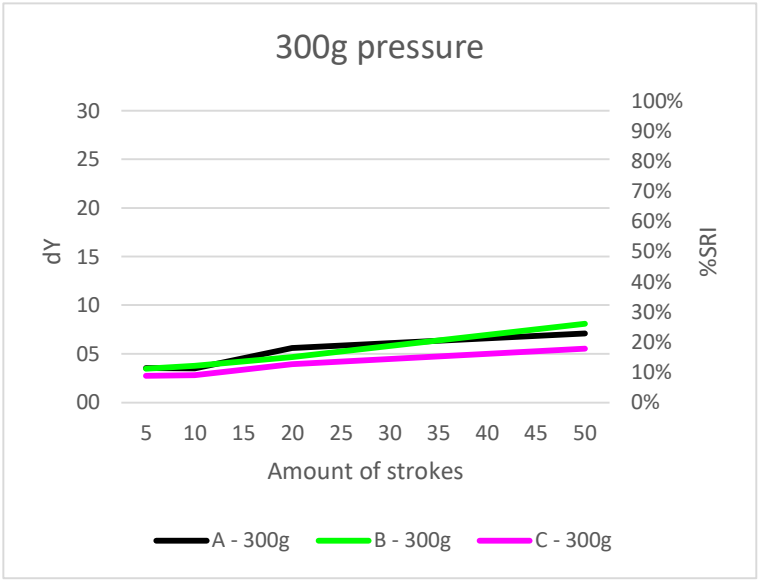
DM-92

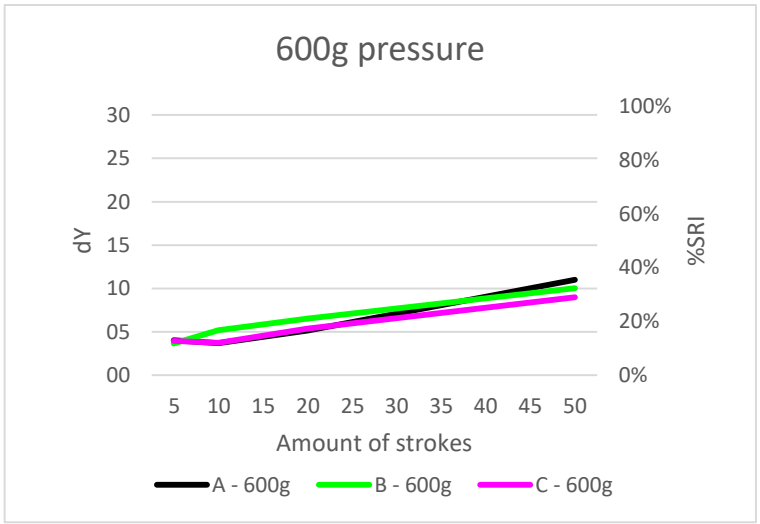
N/A N/A N/A N/A

H U L P

Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ☆☆☆☆☆

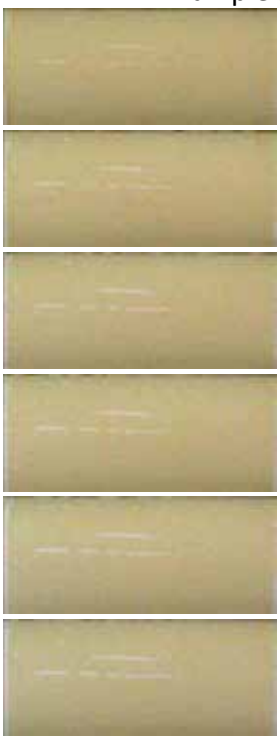
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

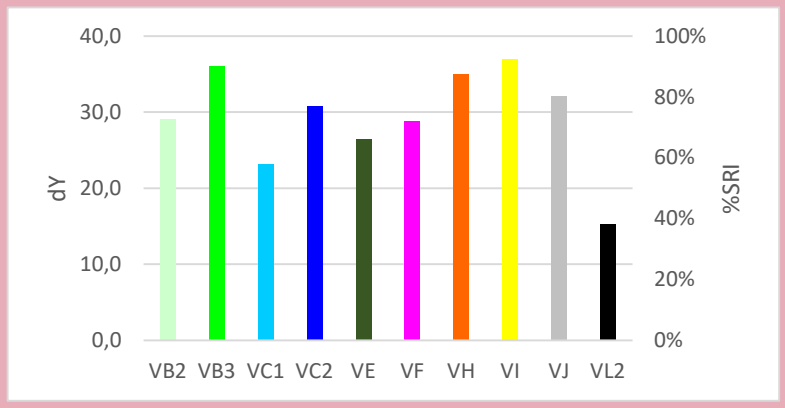
DM-93

Minced meat, triple soil load

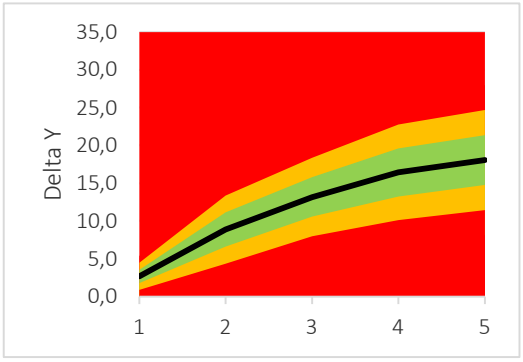
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-93	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-93	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



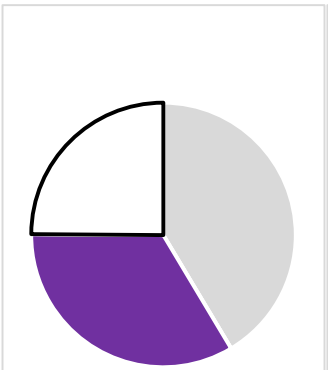
Quality Control

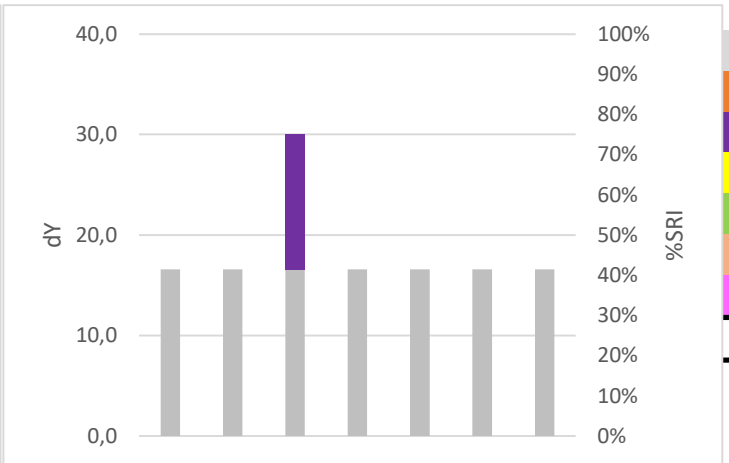


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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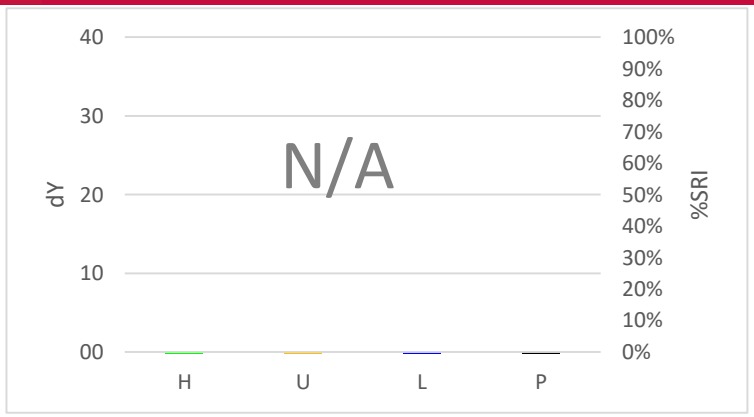
Professional cleaning detergent comparison



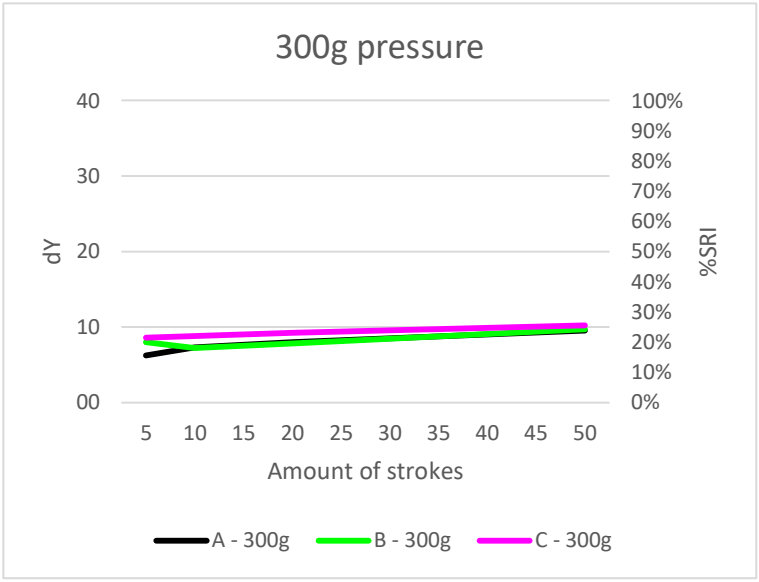
DM-93

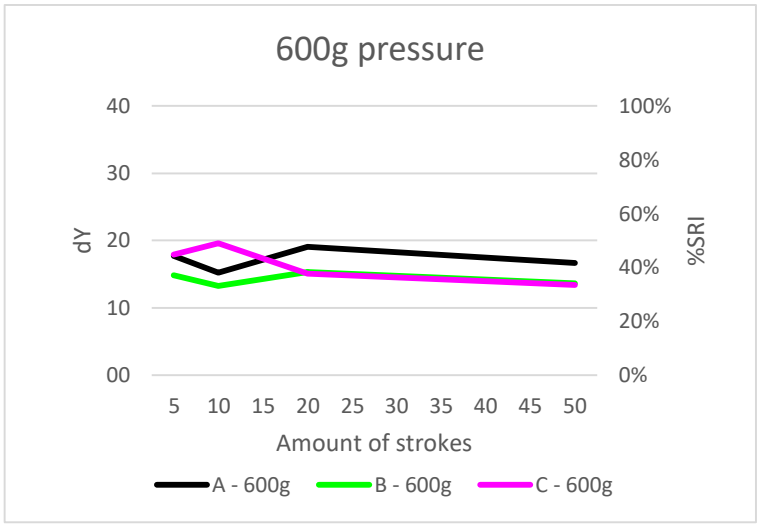
N/A N/A N/A N/A

H U L P

Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ☆☆☆☆☆

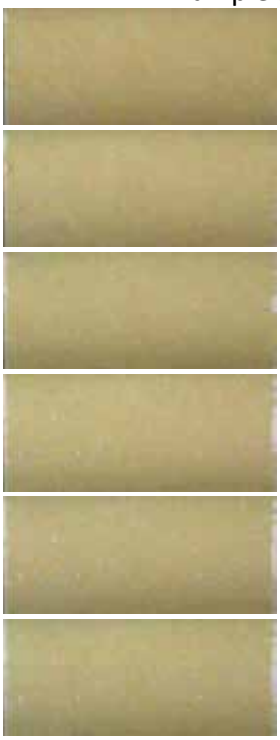
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	10x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

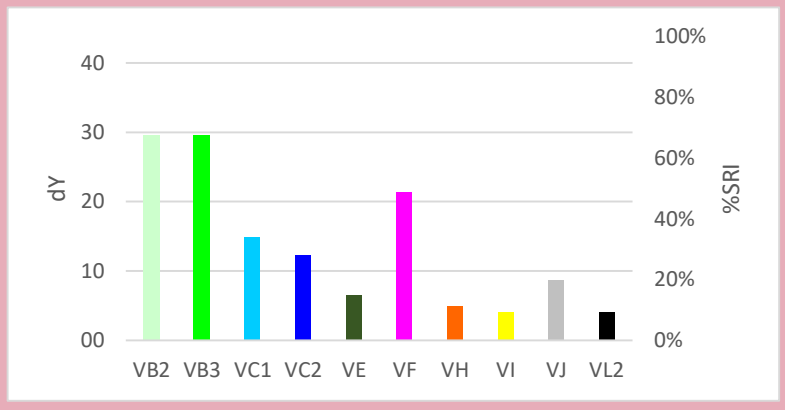
DS-94

Vegan meat, 'Beyond Meat'

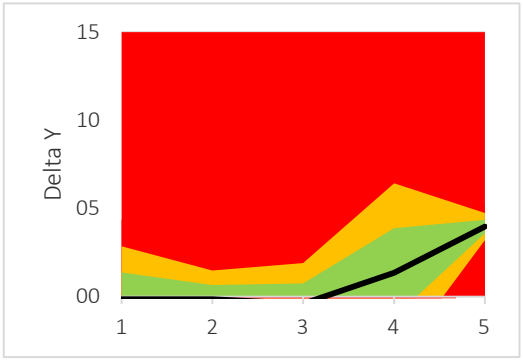
Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★☆☆☆☆
Popularity: ☆☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-94	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-94	Steel plate, smooth (DS H)	120 x 100 x 1	44,4

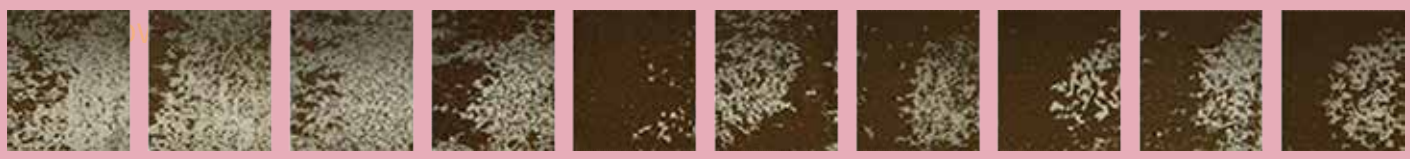
Autodish detergent comparison



Quality Control

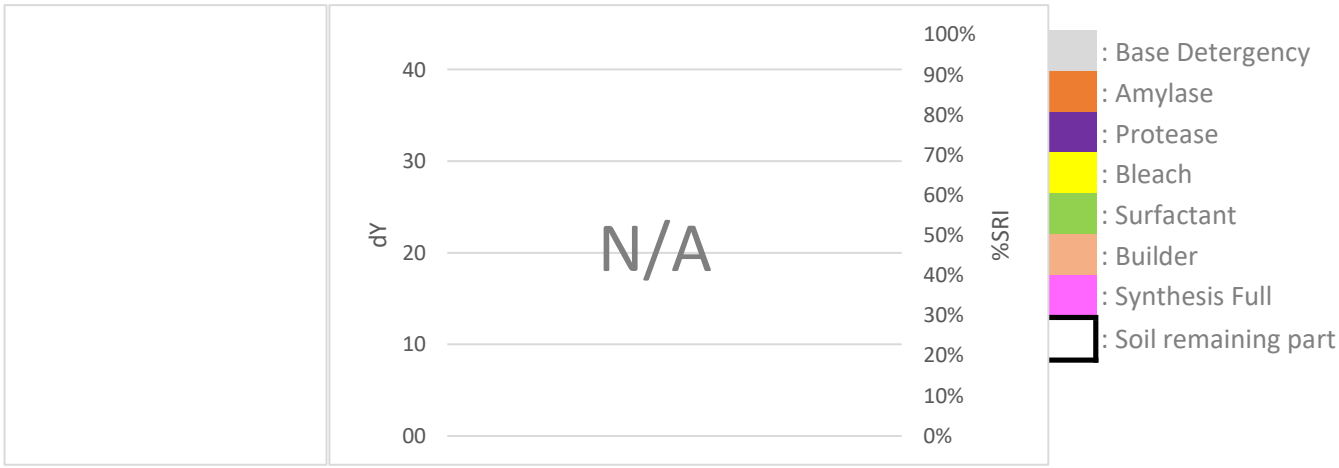


CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response



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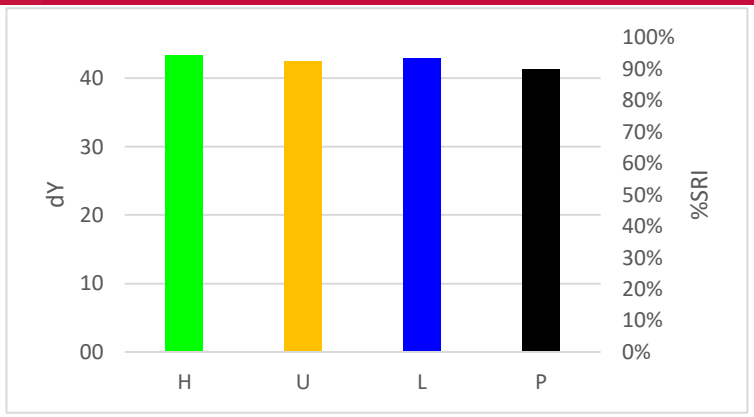
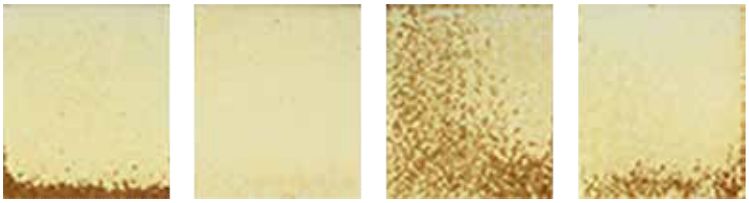
Professional cleaning detergent comparison

DT-94

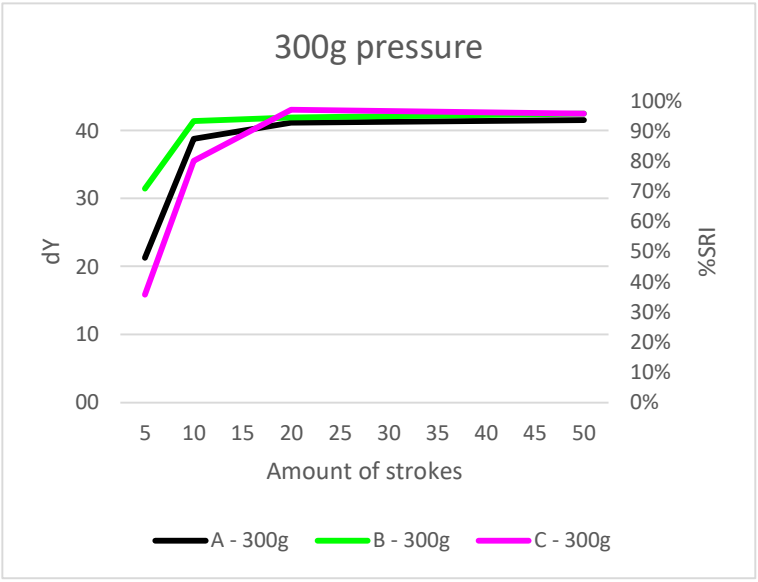


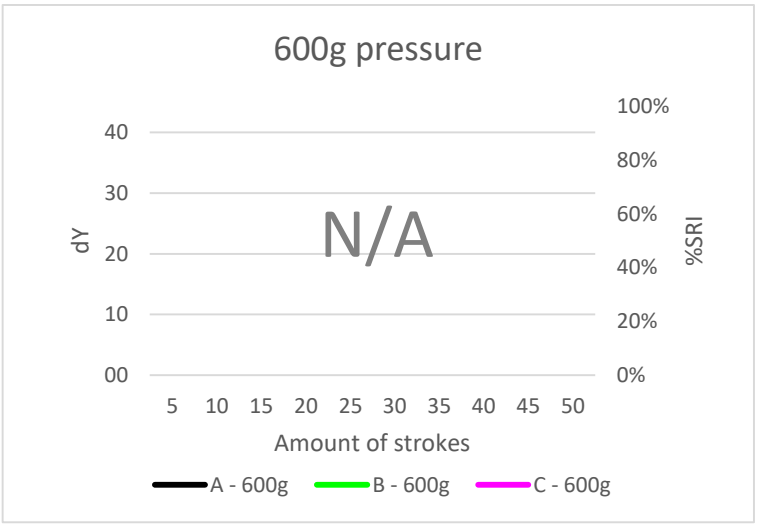


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★☆☆

Hand dishwash detergent comparison





Discriminative Power: ★★★★★
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★☆☆

Example soil removal pictures

1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	5x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

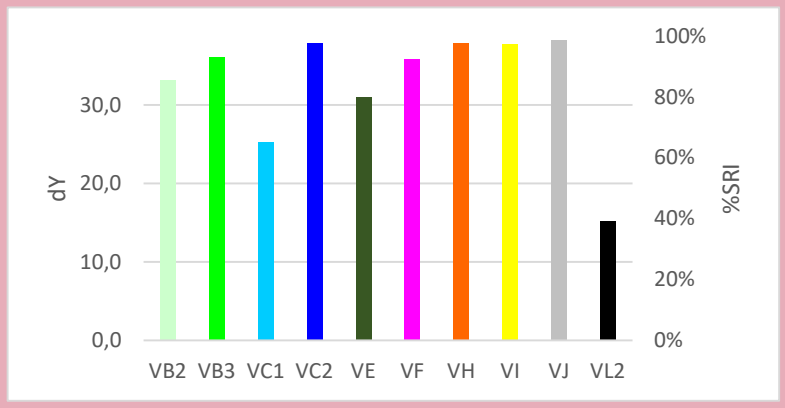
DM-96

Minced meat with fat, triple soil load

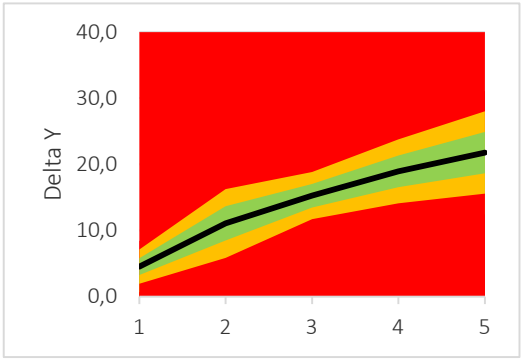
Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DM-96	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-96	Technical Porcelain (DT H)	120 x 100 x 1	87,2

Autodish detergent comparison



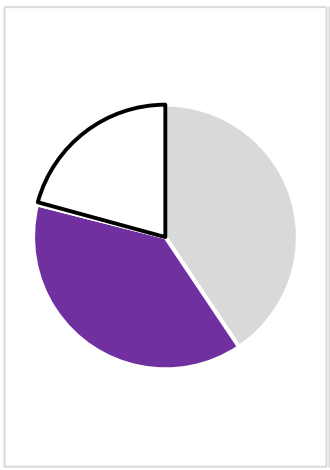
Quality Control

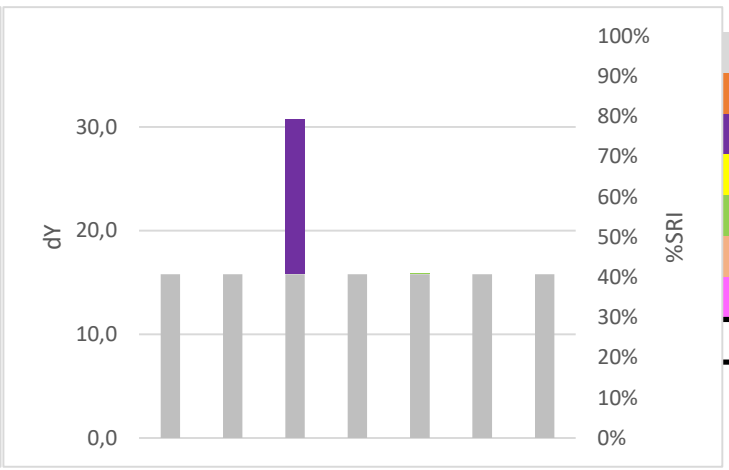


CFT-GSM D

VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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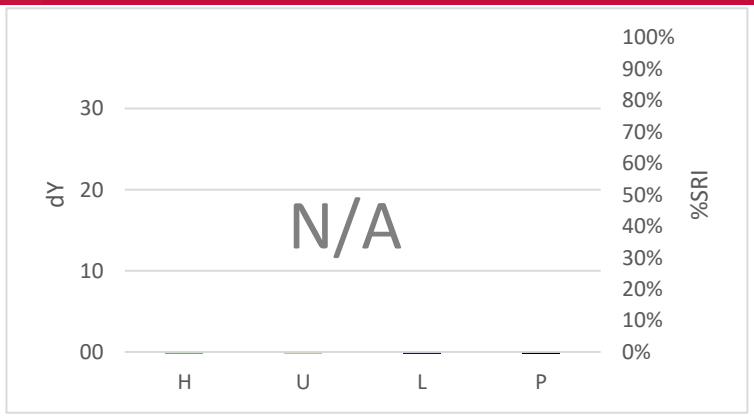
Professional cleaning detergent comparison

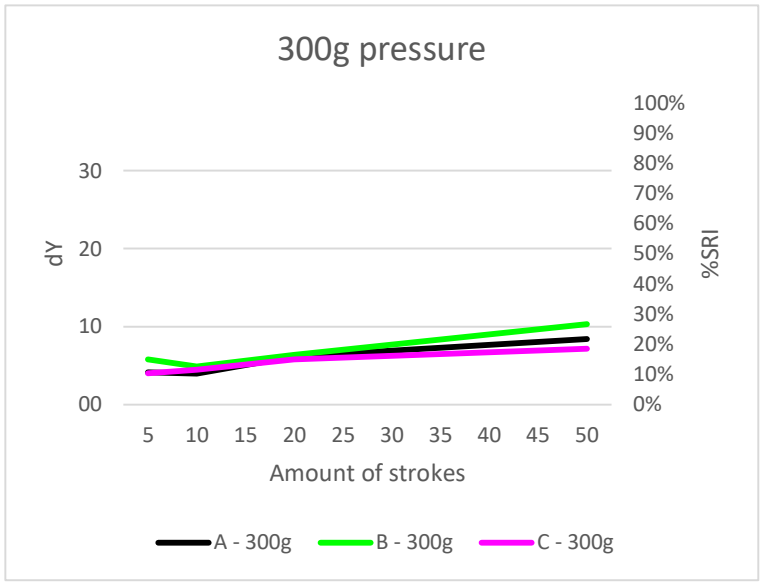


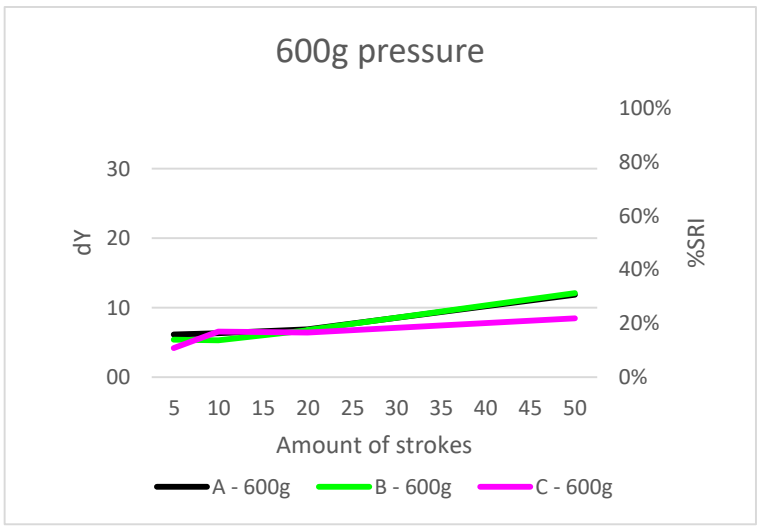
DM-96

N/A	N/A	N/A	N/A	
H	U	L	P	

Discriminative Power: ☆☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ☆☆☆☆☆

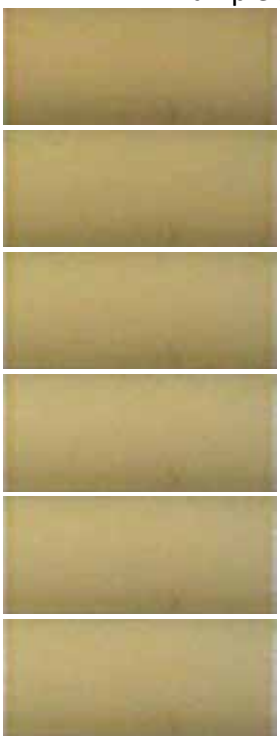
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★★★
Reliability Ratio: ★★★★★

Example soil removal pictures



1 stroke

10 strokes

20 strokes

30 strokes

40 strokes

50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

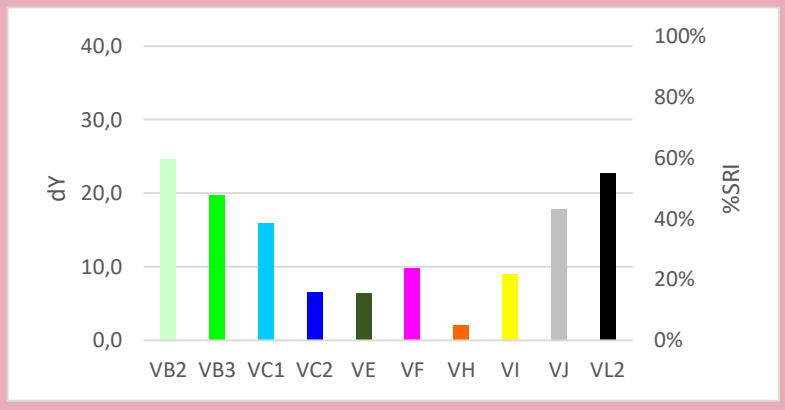
DS-105

Heavily burnt on pasta and cheese

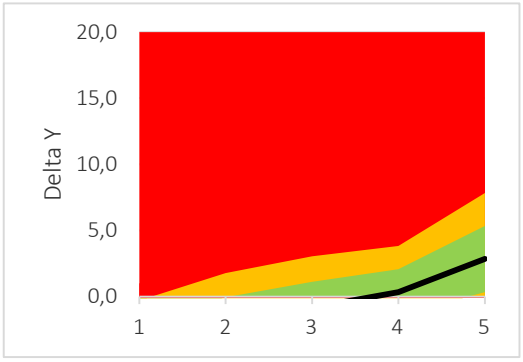
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-105	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-105	Steel plate, grated (DS I)	120 x 100 x 1	47,4

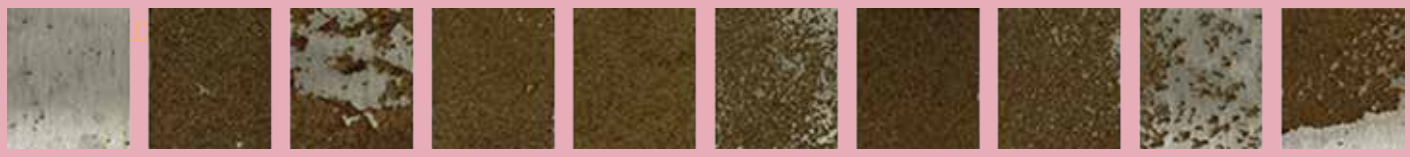
Autodish detergent comparison



Quality Control

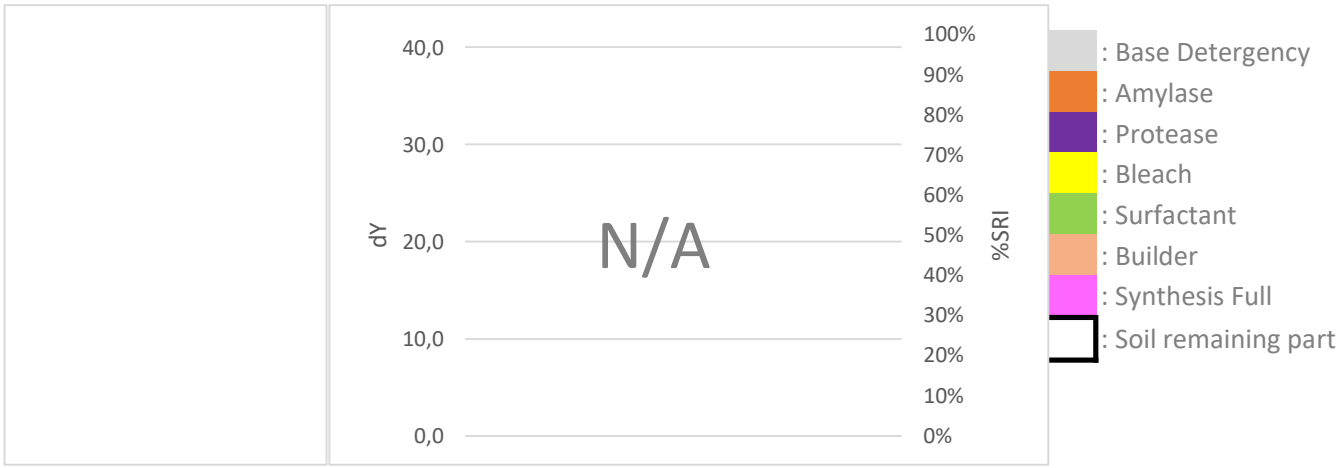


CFT-GSM D



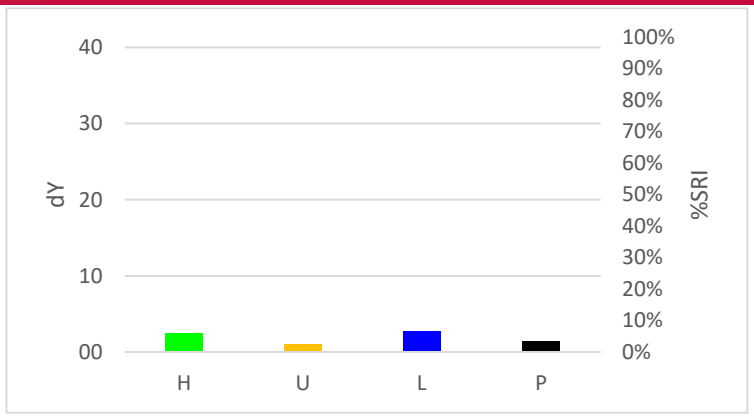
VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

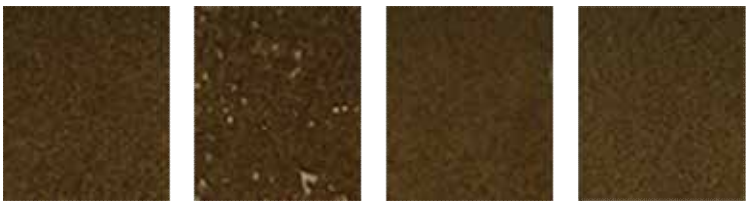


This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison

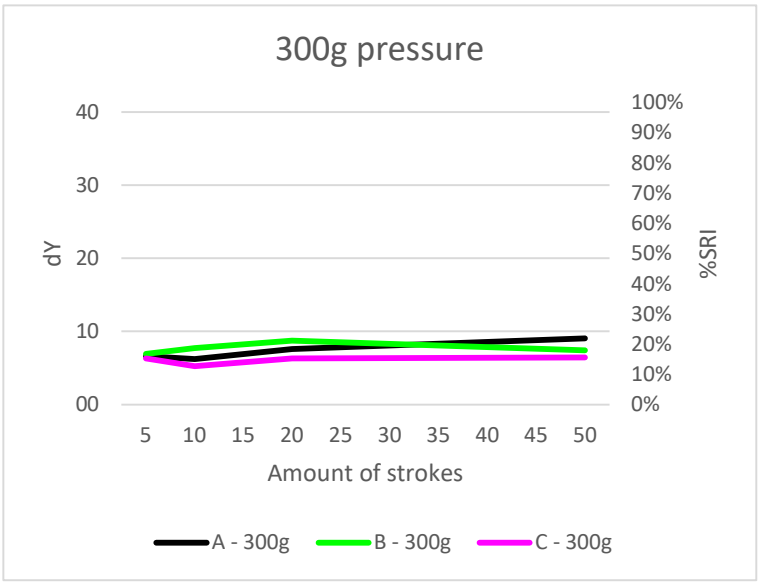


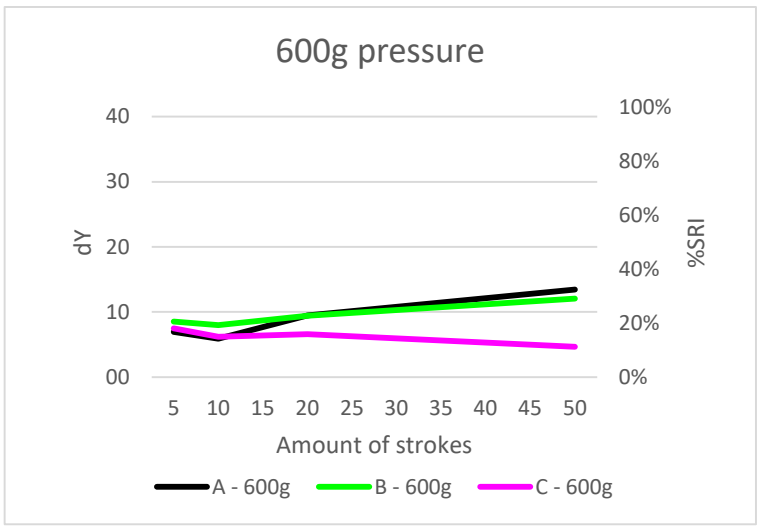
DS-105



Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★★

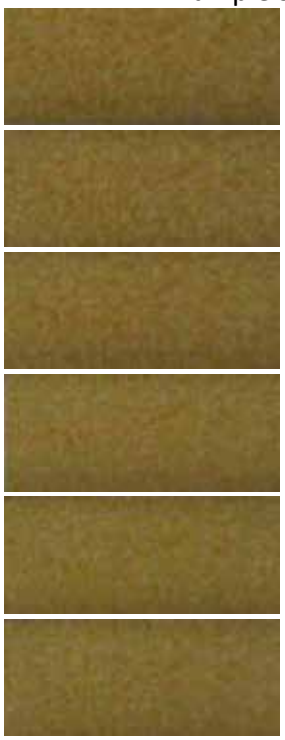
Hand dishwash detergent comparison





Discriminative Power: ★★★☆☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	600g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

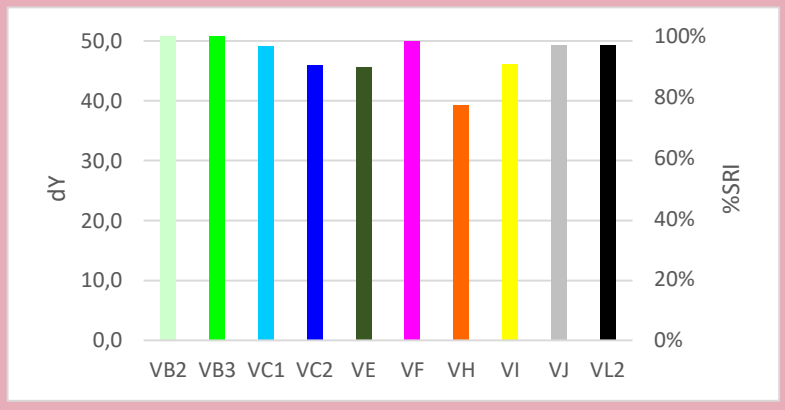
DS-106

Heavily burnt on cheese sauce

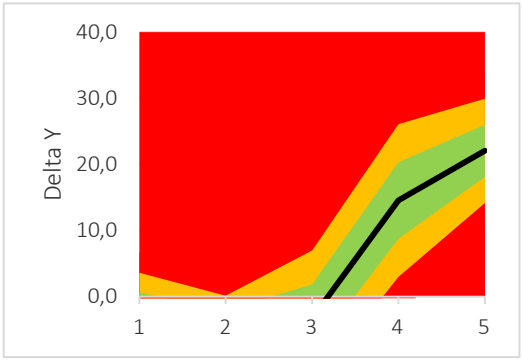
Discriminative Power: ★★☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★☆☆☆
Popularity: ★★★☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-106	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-106	Steel plate, smooth (DS H)	120 x 100 x 1	44,4

Autodish detergent comparison



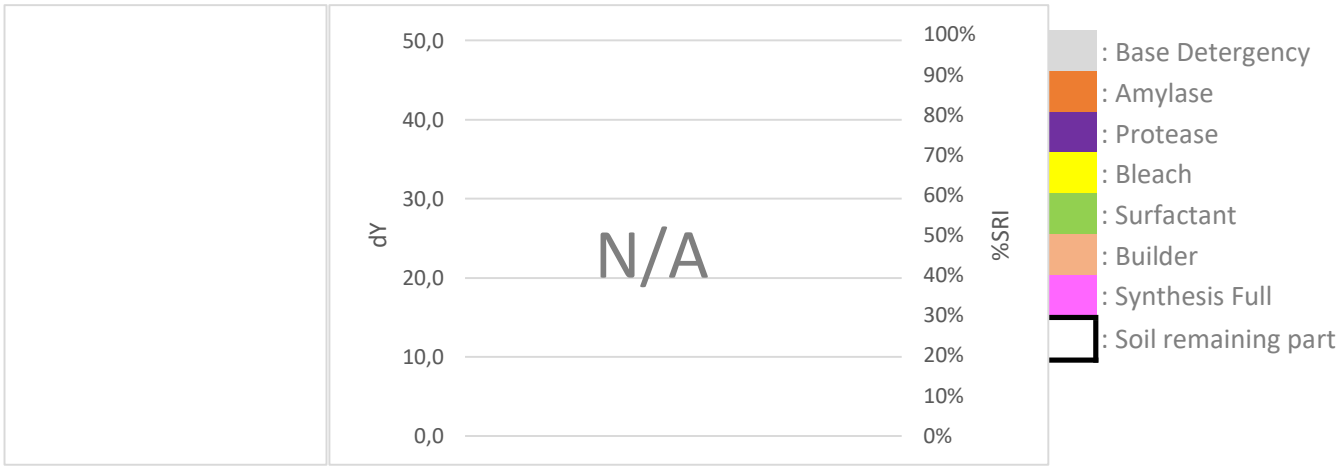
Quality Control



CFT-GSM D

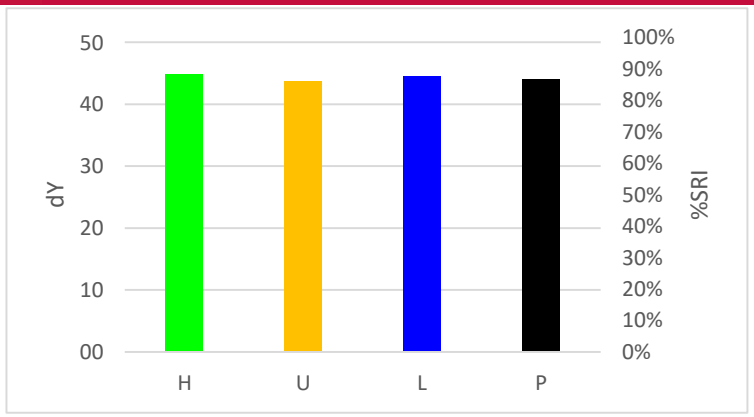
VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response

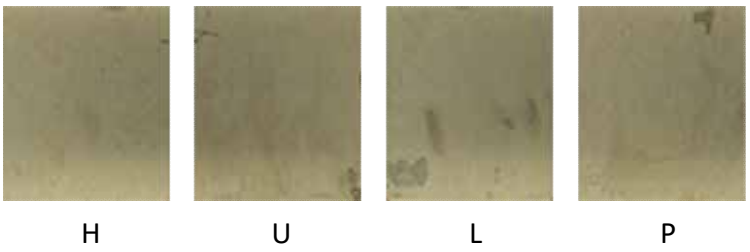


This tile book has been compiled with the greatest possible care, but no rights can de derived from its contents.

Professional cleaning detergent comparison



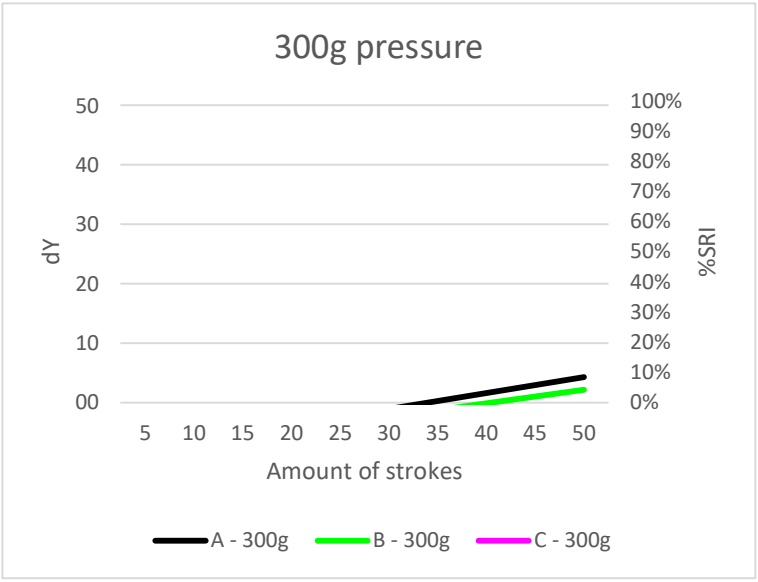
DS-106

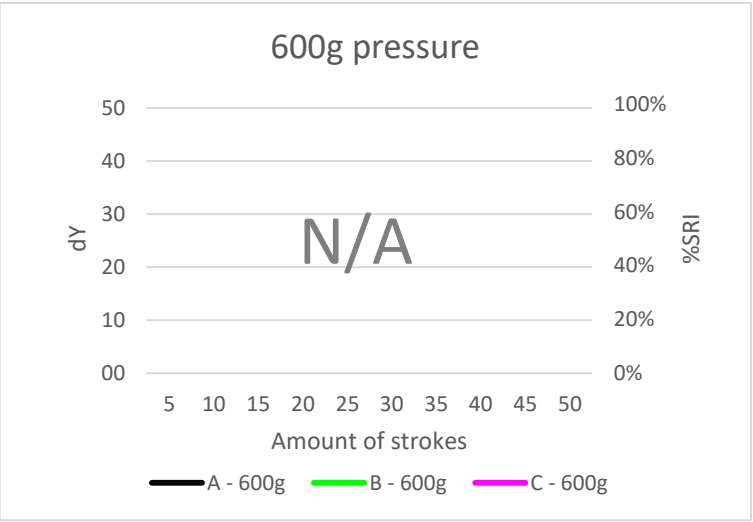


H U L P

Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★★☆

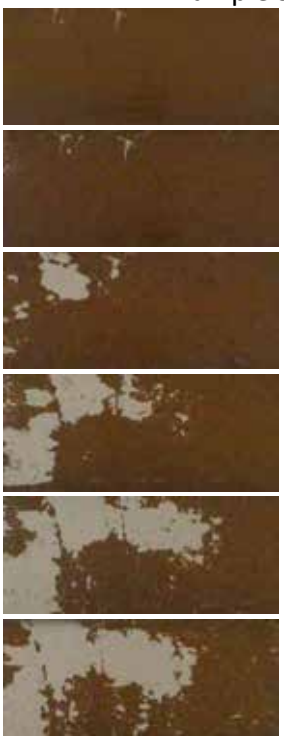
Hand dishwash detergent comparison





Discriminative Power: ★☆☆☆☆
Reproducibility Ratio: ★★★☆☆
Reliability Ratio: ★★★★☆

Example soil removal pictures



1 stroke
10 strokes
20 strokes
30 strokes
40 strokes
50 strokes

Recommended TQC testing conditions

Amount of cycles:	50x
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT sponge (soft)
Application method:	ABS

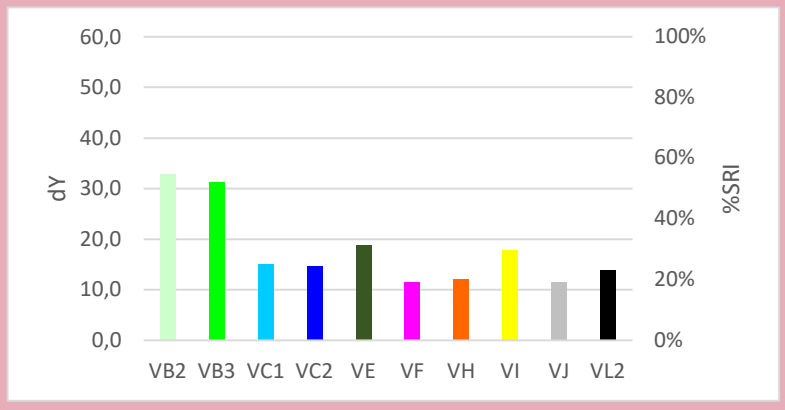
DS-146

Heavily burnt on gravy

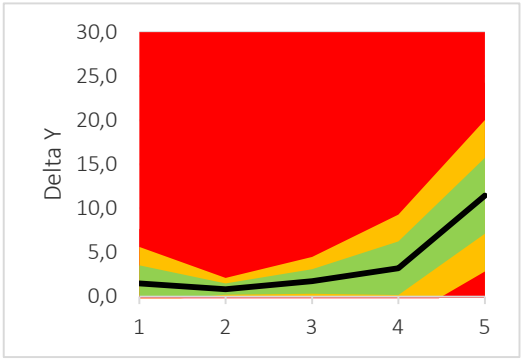
Discriminative Power: ★★★★☆
Reproducibility Ratio: ★★★★☆
Reliability Ratio: ★☆☆☆☆
Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-146	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-146	Steel plate, smooth (DS H)	120 x 100 x 1	44,4

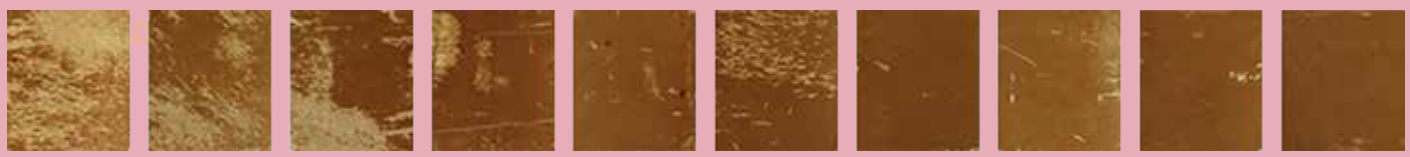
Autodish detergent comparison



Quality Control

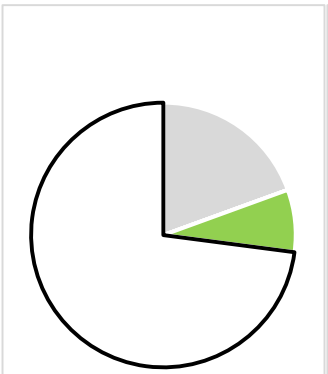


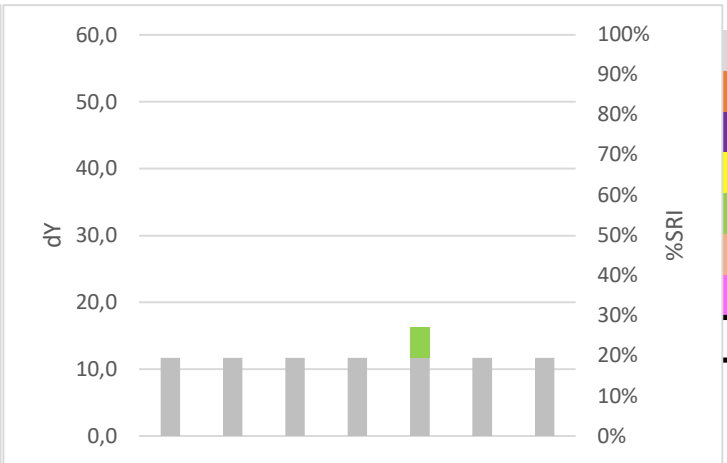
CFT-GSM D



VB2 VB3 VC1 VC2 VE VF VH VI VJ VL2

Autodish detergent component response





: Base Detergency
: Amylase
: Protease
: Bleach
: Surfactant
: Builder
: Synthesis Full
: Soil remaining part

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CFT

CENTER FOR TESTMATERIALS

Specialties

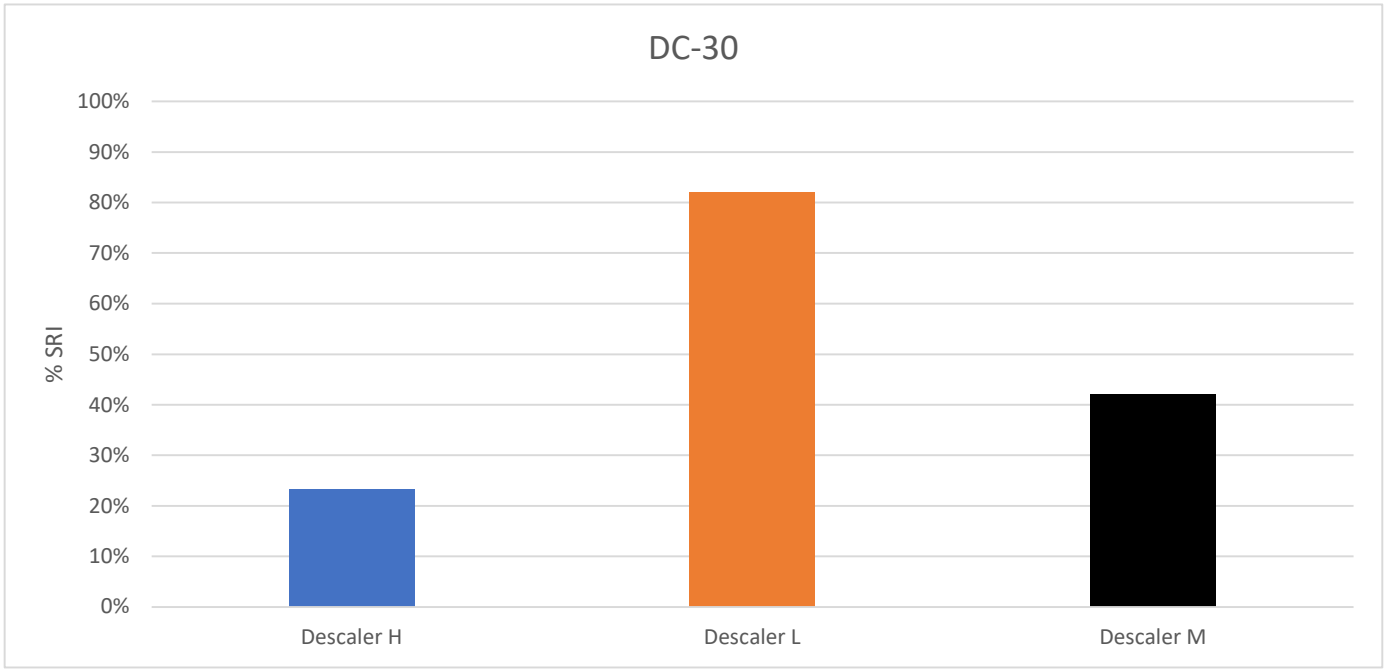
The special tiles are developed to test special detergents. For example Bathroom Cleaners, Descalers, Oven Cleaners, Car Cleaners and many more.

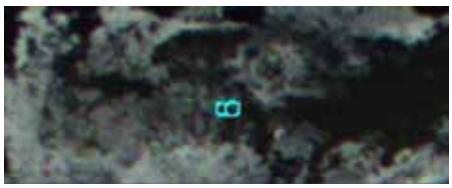
DC-30

Highly discriminative soap scum

Popularity: ★★★★☆

Order code:	Substrate:	Dimensions in mm	Yu:
DS-30	Steel plate, smooth (DS H)	120 x 100 x 1	44,4
DG-30	Glass plate, smooth (DG H)	120 x 100 x 2	87,5
DC-30	Porcelain tile, glaze top, square, black (DC H B)	100 x 100 x 10	4,7





Recommended TQC testing conditions

Amount of cycles:	2x
Amount of pressure:	300g
Speed cycles/min:	40
Length in mm:	200
Utensil:	CFT sponge (rough)
Application method:	AS

Application methods

ABS	Absorption of detergent in sponge
AC	Applying detergent on cloth
AS	Applying detergent on substrate
SOAK	Soak tile in detergent solution

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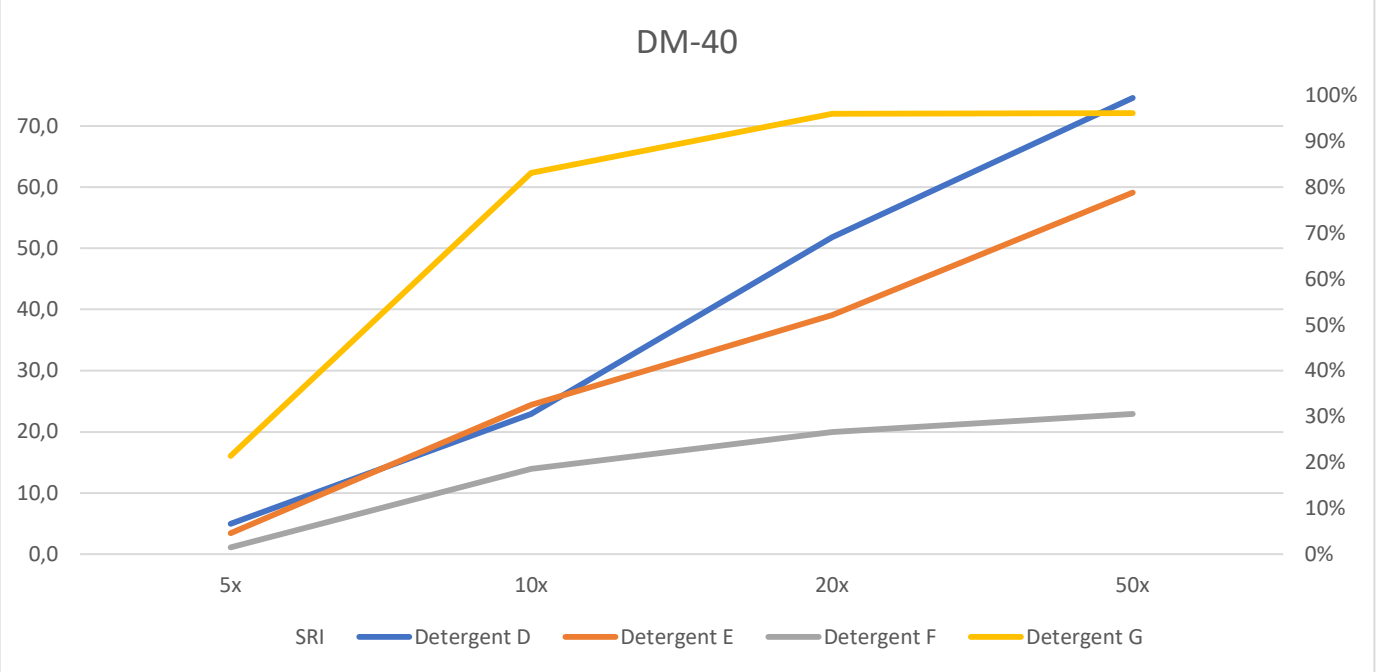
DM-40

All-purpose cleaner soil based on IKW protocol

Popularity: ★★★★★

Order code:	Substrate:	Dimensions in mm	Yu:
DM-40	Melamine resin tile, flat top (DM H)	120 x 100 x 1,2	84,6
DT-40	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-40	Steel plate, smooth (DS H)	120 x 100 x 1	44,4



Example soil removal pictures

5x 10x 20x 50x

Recommended TQC testing conditions

Amount of cycles:	10
Amount of pressure:	300g
Speed cycles/min:	20
Length in mm:	200
Utensil:	CFT cloth
Application method:	AC

Application methods

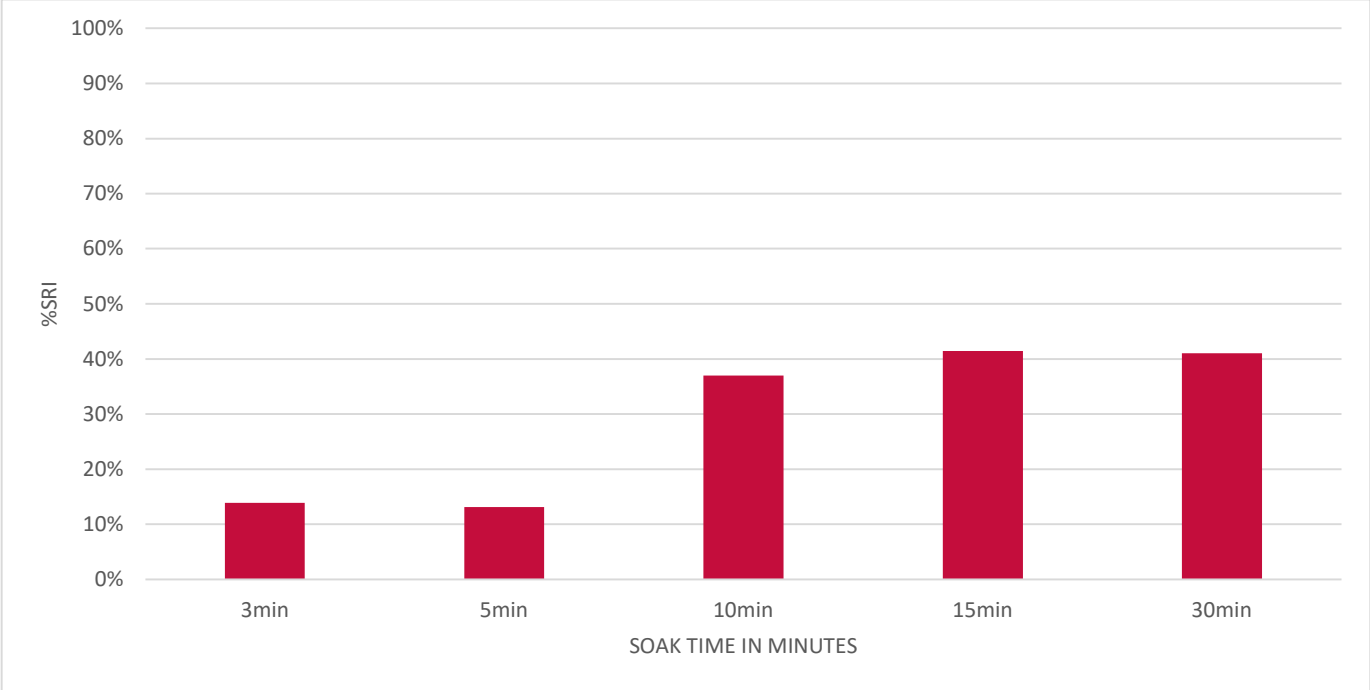
ABS	Absorption of detergent in sponge
AC	Applying detergent on cloth
AS	Applying detergent on substrate
SOAK	Soak tile in detergent solution

DS-48

Oven cleaner stain

Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DT-48	Technical Porcelain (DT H)	120 x 100 x 1	87,2
DS-48	Steel plate, smooth (DS H)	120 x 100 x 1	44,4



Example soil removal pictures

3 min

5 min

10 min

30 min

Recommended TQC testing conditions

Amount of cycles:	4
Amount of pressure:	300g
Speed cycles/min:	40
Length in mm:	200
Utensil:	CFT Sponge (soft)
Application method:	SOAK

Application methods

ABS	Absorption of detergent in sponge
AC	Applying detergent on cloth
AS	Applying detergent on substrate
SOAK	Soak tile in detergent solution

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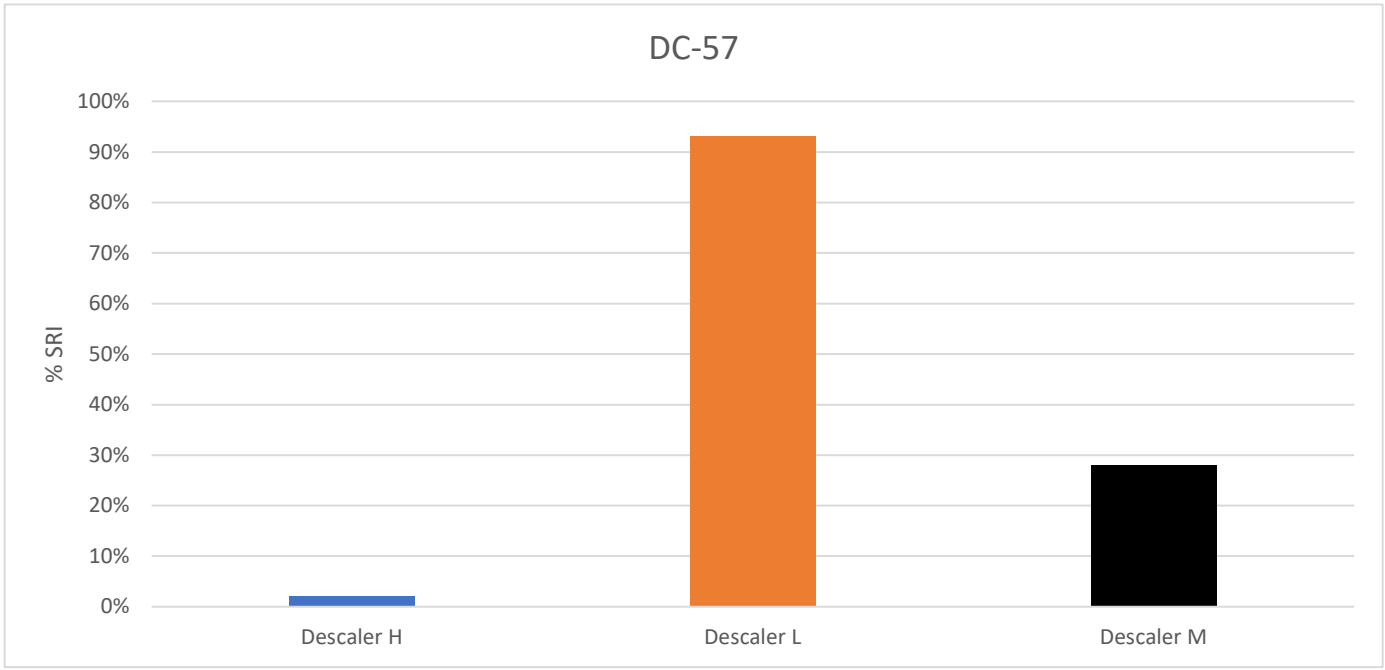
DC-57

Calcium stearate, based on IKW recommend. for bathroom cleaners

Popularity: ★☆☆☆☆

Order code:	Substrate:	Dimensions in mm	Yu:
DC-57	**Porcelain tile, glaze top, square, white (DC H)**	**100 x 100 x 10**	**82,6**



Recommended testing conditions

Amount of cycles:	25x
Amount of pressure:	300g
Speed cycles/min:	40
Length in mm:	200
Utensil:	CFT sponge (rough)
Application method:	AS

Application methods

ABS	Absorption of detergent in sponge
AC	Applying detergent on cloth
AS	Applying detergent on substrate
SOAK	Soak tile in detergent solution

CFT

EQUIPMENT B.V.

Equipment

CFT's goal is to be a "one-stop-shop" for our customers, so offering test equipment, washing machines and measuring equipment fits well in our strategy. Because the long lasting equipment is very different from the consumable testmaterials, we offer the equipment from a separate corporate entity, CFT Equipment B.V. A different colour, but the same level of quality and service!

In the next pages you will find the equipment and accessories you need to test all the tiles in this catalogue.

CFT Equipment

CFT offers a wide range of equipment especially available, made or developed for testing our CFT-tiles. These devices will improve accuracy during and after testing and will also save time during this time-consuming process.

MACH 5+

Colour measurement device

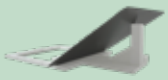
Multi Area Colour-measurement hardware for fast, automatic spectral measurements of multiple samples and large, inhomogenous surfaces.

The Mach 5+ is the fast and accurate solution for detergent performance measurements.
Perform multiple measurements in one go on hard or soft surfaces.

The MACH 5+

- Fast measuring
- Enables quantification of inhomogenous areas
- Ensures fewer human errors
- Measurements are less labour-intensive
- Specially developed for detergent industry
- Easy to operate
- Saves costs & time
- Stores a picture of every measurement

Available accessoires:

MACH 5 34°Holder		Special 34° holder for reducing gloss on shiny surfaces measuring with MACH 5 - per piece.
MACH 5 Tile Bag		Knitted cotton bag to preserve MACH 5 daily calibration check tile.

CR400/410

Handheld colorimeter

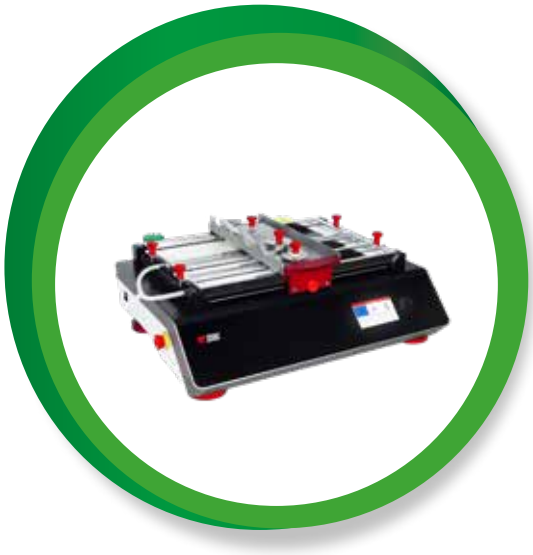
The CR400 is equipped with a measurement area of ø8mm.
The CR410 is equipped with a larger measurement area, ø50mm.
The head specially developed for measuring dishwash tiles, is detachable from the data prosessor.

CR400/410

- Measuring head alone can store up to 1.000 measurements.
- Can be powered with rechargeable batteries for reduced operating costs
- Connected to pc the head can store up to 2.000 measurements
- Large easy-to-see LCD with a built-in backlight
- Capable of displaying color-difference graphs that provide a visual representation of the color difference

Available accessoires:

CR-410 DM		Adapter to flatten DM-tiles while measuring with CR-410 Konica meter.



TQC-Sheen Washability Tester

Mimics manual handdish & hard-surface cleaning movements

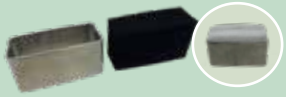
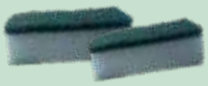
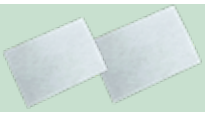
Designed to asses the performance of cleaning agents, the washability tester mimics manual handdish & hard-surface cleaning movements in a standardized way.

This device is fully functional in combination with ready-to-use CFT tiles.

TQC-Sheen Washability Tester

- Four scrubbing heads
- Possibility to add weights for pressure
- Multiple speed strokes
- Pre-settings for industrial standards or your own
- Triple i operating interface
- Ability to fit 2 CFT dishwash monitors simultaneously

Available accessoires:

EXCLUSIVE CFT-CLAMP		Clamp with adjustable bars, usable for tiles that are slightly bended.
CFT-SPRAYING CABIN		Spraying cabin for applying detergents in hard surface cleaning tests.
DM DRYING RACK		Drying rack for washed DM,DG DS and DP tiles. Space for 25 tiles.
TQC DRYING RACK		Drying rack for washed DM,DG DS and DP tiles. Space for 18 tiles.
TQC-CAMERA		Camera to capture images of the cleaning performance of the TQC-Sheen. Including suitcase for transportation. **NEW!**
CFT- WINDOW WIPER		Wiper, designed for the automotive industry.
CFT-CLOTH HOLDER		Cloth holder to use any cloth with a scrub tester - sold per 4pcs.
CFT-SPONGE 24x		Standardized sponge specially developed for the TQC-Sheen. Standardized height, thickness en elasticity. Available per pack of 24 pcs.
CFT-CLOTH		Cloth used in IKW recommendation for the quality assessment of the product performance of all-purpose cleaners - 8x12 cm cloth.

Tergotometer

Labscale testing

Tergotometer UK model. Detergent testing in a labscale environment. Test up to 70°C with 8 different compartments.

Tergotometer

- Test up to 70°C
- Test 8 compartments simultaneously
- Each compartment holds a max of 1 liter

Test soil removal, and optimize wash conditions (for instance temperature, water hardness, softening and foam)

Available accessoires:

TergoTileHolderP		Plastic Tile holder, to fix 10x12cm CFT Dishwash Tiles.

GSL 2 Dishwashing machine

Laboratory dishwashing machine for CFT tiles

The GSL 2 is the perfect washing machine to use in consumer realistic testing methods. The machine has 6 different wash programs.

GSL 2

- Fully equiped with electronic controls
- Circulating air turbothermic drying
- Capacity for 12 international place settings
- All-range softener up to 70 °dH

Available accessoires:

DM-Testing Rack		Plastic Tile holder, to fix 10x12cm CFT Dishwash Tiles.

Electrolux I&I Dishwashing machine

Washing machine for industrial and institutional cleaning

The Electrolux I&I Dishwasing machine can be used in combination with the CFT tiles special developed to test detergents for professional cleaning.