



CENTNER
Industry

CONSUMABLES

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1. ADJACENT FABRIC

Multifibre type DW - ISO 105 F10 - M & S

6 components : Wool , Acrylic, Polyester, Polyamide, (Nylon 6.6), Cotton, Secondary Cellulose Acetate - Wide : 100 mm

| | |
|--|---------|
| Per roll of 10 meters | 702-500 |
| Per roll of 50 meters | 702-502 |
| Pre-cut in 10 x 4 cm (\pm 250 pieces) | 702-520 |
| Pre-cut in 10 x 5 cm (\pm 200 pieces) | 702-521 |

Multifibre type LW

| | |
|----------------|---------|
| Per roll (10m) | 702-515 |
| Per roll (50m) | 702-516 |

Cotton Lawn European (crocking cloth)

Wide : \pm 1400 mm - 110 +/-5 g/m² - complies with ISO 105 x 12 et ISO 105 F09

| | |
|--|---------|
| Per pack of 1 meter | 702-541 |
| Crocking cloths – Pack (500 pieces) 5x5 cm | 702-540 |

Cotton Drill

Wide : 930 mm - 270 +/- 70g/m² complies with ISO 105 DO1 – AATCC132

| | |
|-----------------------------------|---------|
| Per pack of 1m, approx 93 cm wide | 702-480 |
|-----------------------------------|---------|

Cotton Limbric

Wide : 1020 mm – 115 \pm 5g/m² - Complies with ISO 105F02

| | |
|--|---------|
| Per pack of 1 meter | 702-444 |
| Pre cut in 10x4 cm (\pm 500 pieces) | 702-342 |
| Pre cut in 10x5 cm (\pm 500 pieces) | 702-343 |

Wool complies with ISO105 F01

| | |
|--|---------|
| Wide : 1230 mm – Per pack (1 m) | 702-448 |
| Pre cut in 10x4 cm (\pm 500 pieces) | 702-468 |
| Pre cut in 10x5 cm (\pm 500 pieces) | 702-469 |

Linen Suiting – Style L 54 - 218 g/m²

| | |
|-------------------------------------|---------|
| Per pack of 1 meter, wide : 1520 mm | 702-398 |
|-------------------------------------|---------|

Polyester/Cotton – 65/35% bleached – Without optical,165 g/m²

| | |
|-------------------------------------|---------|
| Per pack of 1 meter, wide : 1500 mm | 702-396 |
|-------------------------------------|---------|

Viscose Rayon 140 \pm 5g/m² complies with ISO 105 F02

| | |
|---|---------|
| Per pack of 1 meter; wide 1300 mm | 702-441 |
| Pre cut in 10 x 4 cm, Straight edges (\pm 500) | 702-466 |

Polyamide (6.6) complies with ISO 105 F03

| | |
|-------------------------------------|---------|
| Pre cut 10x4 cm (\pm 500 pieces) | 702-462 |
| Pre cut 10x5 cm (\pm 500 pieces) | 702-463 |
| Per pack of 1 m, wide 98 cm | 702-442 |

Polyester 115 +/- 5g/m² complies with ISO 105 F04

| | |
|--|---------|
| Per pack of 1m, wide : \pm 980 mm | 702-440 |
| Per pack of 10m, wide \pm 980 mm | 702-471 |
| Pre cut of 10x4 cm (\pm 500 pieces) | 702-464 |

| | |
|--|---------|
| Pre cut of 10x5 cm (± 500 pieces) | 702-465 |
| Non-dyeable Polypropylene complies with ISO105 D01 | |
| Per pack of 1m, wide 1000 mm | 702-481 |
| Silk complies with ISO 105 F06 | |
| Per pack of 1m, wide approx 750 mm | 702-393 |
| Acrylique complies with ISO 105 F05 | |
| Per pack of 1m, wide : 1020 mm | 702-443 |
| Pre cut in 10x4 cm (± 500 pieces) | 702-460 |
| Cotton Fabrics complies with ISO 2267 and DIN53919 | |
| 170g/m ² - wide 80 cm Price per M linéaire - Quantity minimum 5 ml | 11A |

1.1 NORMES AATCC

| | |
|--|--------------|
| Multifiber Style 1 <i>complies with Normes AATCC 61, 101, 105, 106, 107 and 132.</i> | |
| Wide : 115 cm (6 components : Acetate Filament, Cotton bleached, Polyamide, Silk, Viscose, Wool.) | |
| Per pack of 1m | 702-417 |
| Per box (500 pieces), 5x5 cm | 702-418 |
| Per box (500 pieces), 5x10 cm | 702-419 |
| Multifiber Style 10 <i>Complies with AATCC 61, 101, 105, 106, 107 and ASTM D 204-82.</i> | |
| Wide : 115 cm (Secondary cellulose acetate, Cotton, Acrylic, Polyamide (Nylon 6.6), Polyester, Wool) | |
| Per pack of 1m | 702-420 |
| Pre-cut 5x5 cm (approx. 500 pieces) | 702-416 |
| Pre-cut 5x10 cm (approx. 500 pieces) | 702-421 |
| Multifiber Style 10A Complies with AATCC 61, 117, 132, ISO 105 F10 | |
| Per pack of 1m | 702-403 |
| Per box (500 pieces), 4x10 cm | 702-370 |
| Per box (500 pieces), 5x10 cm | 702-399 |
| Multifiber TV Style 41 complies with ISO 105 F10 Wide : 100 mm (Acétate filament, cotton bleached, polyamide, polyester spun, polyacrylic, viscose.) | |
| Per roll (10m) | 702-368 |
| Per roll (50m) | 702-371 |
| Pre-cut 10 x 4 cm – per box (approx. 500) | 702-372 |
| Multifiber Style 43 - Wide : 115 mm (Filament Acetate ,SEF (Modacrylic, fire retardant) Bright Filament) , Bleached Cotton , Creslan 61 , (No Optical, Disperse Dyeable (Cationic Dyeable), Polyamide, Polyacrylic, Silk, Polypropylene , Viscose Worsted Wool) | |
| Pack of 50 m | 702-MULTIF43 |
| Polyester Makeweights – AATC : Methods N°8, 35, 42, 70, 116 – 300x300 mm | 766-530T |

2. MARTINDALE: RESISTANCE TO ABRASION & PILLING

Martindale

Abrasion & Pilling Testing




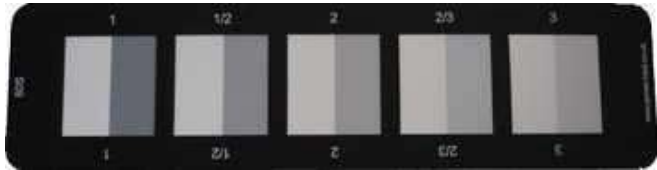

| | |
|--|---------|
| Woven felt pads Complies with EN ISO 12945-2 (Pilling) | |
| Diameter : 90 mm, per pack (20) | 714-611 |
| Woven felt pads Complies with EN ISO 12947-1 (abrasion) and EN ISO 12945-2 (pilling) | |
| Diameter : 140 mm, per pack (20) | 714-612 |
| Woven felt | |
| Per pack (1m x 1,4m wide) | 714-616 |
| Non woven felt pads complies with BS 5690:1988 | |
| Diameter : 90 mm, per pack (20) | 714-601 |
| Non woven felt pads Complies with BS 5690:1988 | |
| Diameter : 140 mm, per pack (20) | 714-602 |
| Nonwoven Felt | |
| per pack (3 pieces, each approx. 1.8m x 0.3m) | 714-604 |
| Sample retaining rings (Pilling) | |
| Per pack (10) | 356-301 |
| Discs of Polyurethane foam | |
| Pre-cut. Diameter 38 mm. ± 2000 pieces | 786-256 |
| Foam for abrasion test complies with ISO 12947 and NF G 07-221 | |
| Foam dim. 375x250 mm – Per pack (50) | 786-255 |
| Pre cut Ø 38 mm - Approx 2000 pieces | 786-256 |

| | |
|--|---------|
| Additional Foils for kit Martindale 30 mm diameter | |
| Pack of 50, dim. 50,5x50,5 mm | 785-507 |
| Silicon Carbide Abradant 180J for EN 530 : 1995 Méthode 1 and EN ISO 5470-2 Méthode 1 & 2 - | |
| Per roll (50m x 150 mm wide) | 701-219 |
| Silicon Carbide Abradant 180J for EN 530 :1995 Méthode 2 and ISO 5470-2 Méthode 2 and EN14325 | |
| Per roll (50m x 100 mm wide) | 701-216 |
| Abradant for norme EN 16904-A et -B | |
| 3M Scotch Brite type 7440 Ø 89 mm - Brown – Per 10 | 789-671 |
| 3M Scotch Brite type 7447 Ø 89 mm - Maroon – Per 10 | 789-674 |
| 3M Scotch Brite type 7448 Ø 89 mm – Grey/Brown – Per 10 | 789-678 |
| Cotton canvas JIS "6. Méth. Toyota TSL2105G part 4.7.2. | |
| Wide: 914 mm. – Per pack (1m) | JIS6 |
| Martindale Abrasive Cloth SM 25 - EN ISO 12947-1:1999 (abrasion) - EN ISO 12945-2 (pilling – furnishing) - Wide: 1600 mm | |
| Per pack (5m) | 701-202 |
| Per roll (25m) | 701-200 |
| Per roll (50m) | 701-203 |
| Pre-cut discs dia. 140 mm (per pack 100 pcs) | 701-207 |
| Abrasive cloth - Method Test D44 1846 (Martindale), méthode D14-1055 indice F: 2012, PSA 44 1073, NFG 37-110 et STM-C-703 - 55% Polyester/45% laine | |
| Per pack (5m), laize 155 cm | 3049-5 |
| Abrasive Cloth Fabric Volkswagen 80% Wool 20 % Polyamide | |
| Per pack (1m), wide 1500 mm | 701-330 |
| Abrasive Cloth Fabric Volkswagen 70% Viscose 30% Linen | |
| Per pack (1m), wide 1500 mm | 701-331 |
| Oakey Cabinet Quality Glass paper Grade OO Grit 240 complies with EN 943-1 & EN 465-467 protective cloth | |
| Per pack of 25 sheets 280x230 mm | 701-214 |
| Oakey Cabinet Quality Glass paper Grade F2 Grit 100 complies with EN 388 protective gloves | |
| Per pack of 25 sheets 280x230 mm | 701-215 |
| Paper Abrasif Klingspor PL31B Grit 180 Approved by comity Europeen of Normalisation (CEN TC162 WG8 PG2 N036) for norm EN 388 | |
| Per pack of 50 sheets (280 x 230 mm) | 701-240 |
| Per pack of 40 pre-cut discs (dia 140 mm) | 701-241 |
| Paper abrasif M&S C8 Silicone Carbide Waterproof Paper 280 Grit | |
| Per pack (50) | 701-217 |

2.1 ACCESSORIES FOR MARTINDALE

| | | |
|---|---|---------|
| Martindale ball Plate Station Kit : 1 martindale ball plate (525-795), 1 woven Felt Pad (714-610), 1 Template (160mm diam) (525-793), 1 spacer (525-799), 1 Replacement Sample Holder Guide, 1 operator's guide (290-864-2). Test of leather based on Test VDA 230-211 and NF EN ISO 17076-2 | | 794-410 |
| Abrasion Station Kit 1 sample, 1 weight 9 kPa and 1 weight 12 kPa | Martindale Série 900 & 1300 | 794-620 |
| | Martindale 864, 401, 402, 404 et 406 | 794-402 |
| Pilling Station kit 1 sample, 1 holding ring et 1 weight 260 g ± 1 g | Martindale Série 900 & 1300 | 794-517 |
| | Martindale 864, 401, 402, 404 et 406 | 794-509 |
| Specimen Mounting Mandrel For mounting specimens for the pilling test | Martindale Série 900 & 1300 Martindale 864, 401, 402, 404 et 406 | 525-256 |
| Preparation Weight of 5.5 kg for Martindale, as described in ISO / DIS 12947-2 | | 526-437 |
| Additional block Spanner for 1600 series Martindale Abrasion and Pilling Testers | | 526-549 |
| Lissajous Figure Marker Pen – For checking the Lissajous figure according to EN ISO 12947-1 | | 788-761 |
| Lissajous Figure Recording paper – Per pack (50) | | 788-760 |
| Spare Precision Ball (Black) – For Sock Testing - Per pack (2) | | 393-254 |
| Spare Precision Ball (Yellow) – For Sock Testing – Per pack (2) 393-256 is only suitable for Sock abrasion station Kits were the inside of the sample Holder is marked « YELLOW BALL ». Otherwise use the black ball. | | 393-256 |
| IWS Pilling Photographs SM 50 for woven fabrics (Martindale) Test Method 196 - suitable for use with ASTM D4970 | | 766-459 |

3. GREY SCALE

| | | | |
|--|---------|--|---------|
| Grey scale – Approved by Marks & Spencer | | | |
|  <p>For assessing change in color - ISO 105 A02</p> | |  <p>For assessing staining - ISO 105 A03</p> | |
| 766-200 | | 766-201 | |
| AATCC Grey Scale for color change | | Fluorescence Suppressor | |
| For color change | 766-512 | Mercury in glass For sample testing in light cabinet | 766-479 |
| For staining | 766-513 | | |
| Color Fastness Testing Mask | | | |
| Testing Mask Mask of evaluation for grey scale 2 Windows – Wide : 0,8 mm | 766-477 |  | |

4. CONSUMABLES FOR WEIGHT OF M²

| SAMPLE CUTTER JAMES HEAL | |
|--|----------------|
| Model 230/100 100 cm ² - Diam 113 mm Deep of cut : 5 mm Referentie of blades : 761-806 | 902-220 |
| Model 230/140 for Martindale 154 cm ² - Diam. 140 mm Deep of cut : 5 mm Referentie of blades : 761-806 | 902-221 |
| Model 230/38 for Martindale 12 cm ² - Diam. 38 mm Deep of cut : 5 mm Referentie of blades : 761-807 | 902-222 |
| Model 230/10 10 cm ² - Diam. 36 mm Deep of cut : 5 mm Referentie of blades : 761-807 | 902-225 |
| Model 230/50 50 cm ² - Diam. 80 mm Deep of cut : 5 mm Referentie of blades : 761-806 | 902-227 |
| Model 230/100 (C) For carpet and thick material 100cm ² - Diam 113 mm Referentie of blades : 761-817 | 902-223 |



BLADES FOR CUTTER

| | | |
|---|---------|---|
| Model 230/140 and 230/100 For cutter James HEAL Rounded edges, 3 holes - Wide: 0,20 mm Per pack (100) | 761-806 | <p>761-806 For model: 230/140, 230/100, Packs (100)</p> |
| Model 230/38 For cutter James HEAL Wide: 0,13 mm Per pack (100) | 761-807 | <p>761-807 For model: 230/38, Packs (100)</p> |
| Model 230/100 (C) For cutter James HEAL Per pack (20) | 761-817 | <p>761-817 For model: 230/100C Packs (20)</p> |

CUTTING BOARD

| | |
|---|-----------------|
| Cutting board grey for all cutters – Per pack (10) – Dim: 300 x 200 x ep. 10 mm | 761-801 |
| Softer soles, lighter (white) – Per pack (10) – Dim: 247 x 198 mm x ep. 10 mm | PE140EV |
| Set of 3 hard rubber plates - Dim 170 x 170 X 10 mm | SEM17X17 |

5. KITS

Standard configuration to determine weight per m²



| CUTTER | |
|---|---------|
| Model 230/100 100 cm² - Diameter 113 mm Depth of cut: 5 mm | 902-220 |
| PRECISION SCALES | |
| Scales OHAUS Modèle TA 152 Range : 150 g Precision: 0,01g Diameter of the tray: 120 mm Connexion USB or RS 232 | TA 152 |



The scales is delivered with 1 verification weight, 1 mains power supply and 1 folding screen convertible into a weighing platform

Operates on mains or batteries (4 "AA" batteries not included)

Reference : KITMMS

6. THERMAPLATE : Test Materials & accessories

| TEST MATERIALS & ACCESSORIES | | Stock Code | ISO 105 P01 | ISO 105 X11 | M&S P010 | M&S C13 | AATCC 117 | AATCC 133 | JIS L 0879 | JIS 0850 | adidas 5.09 | GB 6152 | GB 5718 |
|--|---|------------|-------------|-------------|----------|---------|-----------|-----------|------------|----------|-------------|---------|---------|
| ● Required ○ Recommended | | | | | | | | | | | | | |
| Grey Scale for assessing Change in Colour ISO 105 A02 | | 766-200 | ● | ● | | ● | | | ● | ● | ● | ● | ● |
| Grey Scale for assessing Staining ISO 105 A03 | | 766-201 | ● | ● | | | | | ● | ● | ● | ● | ● |
| Ruler 300 mm/12 in | | 772-133 | | | ● | | | | | | | | |
| AATCC Chromatic Transference Scale | | 766-510 | | | | | ○ | ○ | | | | | |
| AATCC Gray Scale for Color Change | | 766-512 | | | | | ● | ● | | | | | |
| AATCC Gray Scale for Staining | | 766-513 | | | | | ● | ● | | | | | |
| CAC with D65 | | | ● | ● | | ● | ○ | ○ | ● | ● | ● | ● | ● |
| CAC with CWF | | | | | | | ○ | ○ | | | | | |
| ISO Certificate of Calibration | | 201-620 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Temperature Measuring Kit (with UKAS Certificate of Calibration) | | 794-903 | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Multifibre Adjacent Fabric DW - per roll (10m) | | 702-500 | ● | | | | | | ● | | | | ● |
| Multifibre Adjacent Fabric DW - per roll (50m) | | 705-502 | ● | | | | | | ● | | | | ● |
| Multifibre Adjacent Fabric DW - per roll (100m) | | 702-503 | ● | | | | | | ● | | | | ● |
| Woven Felt 125 x 90 mm - per pack (10) | | 702-447 | | ● | | | | ● | | ● | | ● | |
| Multifibre Adjacent Fabric Style 10 A - per pack (10m) | | 702-403 | | | | | ● | | | | | | |
| Nominally comply with ISO 105 F Series | Cotton Limbriac 125 X 90mm per pack (20) - ISO 105-F02 | 702-446 | ○ | ● | | | ○ | ● | ○ | ● | ○ | ● | ○ |
| | Cotton Limbriac Adjacent Fabric - per pack (1m) approx 102cm wide - ISO 105-F02 | 702-444 | ○ | ● | | | ○ | ● | ○ | ● | ○ | ● | ○ |
| | Polyester Adjacent Fabric - per pack (1m) approx. 102 cm wide - ISO 105-F04 | 702-440 | ○ | | | | ○ | | ○ | | ○ | | ○ |
| | Polyester Adjacent Fabric - per roll (10m) approx. 102 cm wide - ISO 105-F04 | 72-471 | ○ | | | | ○ | | ○ | | | | ○ |
| | Polyamide Adjacent Fabric - per pack (1m) approx. 98cm wide - ISO 105-F03 | 702-442 | ○ | | | | ○ | | ○ | | ○ | | ○ |
| | Polyamide Adjacent Fabric - per pack (1m) approx. 98cm wide - ISO 105-F03 | 702-459 | ○ | | | | ○ | | ○ | | | | ○ |
| | Silk Adjacent Fabric - per roll (10m) approx 750 mm wide - ISO 105-F06 | 702-393 | ○ | | | | ○ | | ○ | | ○ | | ○ |
| | Wool Adjacent Fabric - per pack (1m) approx 123 cm wide - ISO 105-F01 | 702-448 | | | | | ○ | | ○ | | ○ | | ○ |

7. PILLING

Complies with Pilling Norm ISO 12945

7.1 Spares for Pilling or Snagging Boxes

| | |
|---|---------|
| Moulded Polyurethane pilling tube – complies with ISO 12945-1 | |
| Long : 140 mm – Per pack (4) | 758-555 |
| Cork liners for Pilling boxes | |
| Mounted on steel plates - Per set (6) | 794-752 |
| Cork liners for Snagging Boxes | |
| Mounted on steel plates – Per set (6) | 794-746 |
| PVC TAPE | |
| Rolls of 19 mm wide PVC tape – per pack (10) – color white | 789-511 |
| Specimen Mounting Jig (Stand, Tube and Plug) | |
| Per unit | 794-521 |
| Snagging Points for one Plastic Pilling Box | |
| Per set (6) | 511-545 |



7.2 Spares and Consumables (Snagpod)

| | |
|---------------------------------|---------|
| Snagging Bar | |
| Per pack (4) | 794-824 |
| Fixing Screws for Snagging Bars | |
| Per pack (10) | 319-152 |
| Felt-covered Polyurethane Tubes | |
| Per pack (4) | 758-554 |
| Pack Locking Rings | |
| Per pack (20) | 758-553 |
| SnagPod Reference Photographs | |
| Per set (9) | 766-455 |
| Specimen Template | 772-121 |
| Assessment Mask | 766-480 |



| 7.3 Spares for Pilling Drum | |
|---|---------|
| Ramp – each | 788-743 |
| Liner Supports – per pack (5) | 788-742 |
| Polyurethane Pilling Tubes (70.2 ll long) – per pack (4) | 758-551 |
| Locking Rings – per pack (20) | 758-553 |
| Double – sided Adhesive Tape – approx. 25 mm wide x 36 yd long Per pack (10 rolls) | 789-513 |

| 7.4 Spares for Snagging Kit for Pilling Drum | |
|--|---------|
| Bead Bag – each | 785-251 |
| Pinned Bars – each | 789-361 |

| 7.5 Spares for earlier machines | |
|--|---------|
| 7.5.1 Spares for earlier machines with (silver) fabricated metal boxes | |
| Cork Liners for Pilling Boxes (mounted on steel plates) – Per set (6) | 794-752 |
| Cork Liners for Snagging Boxes (mounted on steel plates) – Per set (6) | 794-746 |
| Snagging Points for one Metal Pilling Box – Per set (6) | 794-747 |
| 7.5.2 Spares for earlier machines with (blue) moulded plastic boxes | |
| Cork Liners for Pilling Boxes (mounted on aluminium plates) – Per pack (6) | 794-722 |
| Cork Liners for Snagging Boxes (mounted on aluminium plates) – Per set (6) | 794-727 |
| Snagging points for one box – Per set (6) | 511-545 |
| 7.5.3 Spares for earlier machines with (grey) fabricated plastic boxes | |
| Cork Liners for Pilling or Snagging Boxes (mounted on aluminium plates) – Per pack (6) | 794-722 |
| Cork Liners for Snagging Boxes (mounted on aluminium plates) – Per set (6) | 794-727 |
| Snagging points for one box – Per set (6) | 396-754 |

BOX RTPT : PILLING ON R.T.P.T.




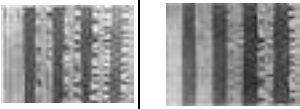



| | |
|---|---------|
| Cork liner Complies with ASTM D3512 DIN 53867 (ISO 12945-3) | |
| Per pack (50) | 393-527 |
| Cork liner (Extra Long) Length 460 mm +/- 1 mm <i>For non-James Heal machines were a slightly longer liner is required.</i> | |
| Per pack (50) | 393-533 |
| Grey cotton sliver | |
| Per pack – approx 1m | 785-509 |
| Neoprene liner For EN ISO 12945-3 and NFG07-121 | |
| Per pack (5) | 758-566 |
| Specimen edge glue | |
| 4 bottles – each 180 ml | 794-654 |
| ASTM D 3512 Photographic Standards Consists of 5 photographs, 105 mm square, graded no.1 (very severe pilling) to no.5 (no pilling) | |
| | 766-450 |

8. PHOTOGRAPHIC

| | |
|---|----------------|
| Full Set EMPA Photographic Standards | |
| Full set 3 x 4 mounted photographs for woven fabrics 3 x 4 mounted photographs for knitted fabrics The 4 photographs indicate ratings of 1-2, 2-3, 3-4 and 4-5. | 766-451 |
| M & S and BS 5811 : 1979 "Woven" Standard | 766-461 |
| M & S "Knitted" Standard Photographs | 766-462 |
| BS 5811 : 1979 "Single Jersey" Standard | 766-463 |
| BS 5811 : 1979 "Double Jersey" Standard | 766-464 |
| IWS Pilling Photographs SM 50 for woven fabrics (Martindale) – test method 196 – suitable for use with ASTM D4970 | 766-459 |
| IWS Pilling Photographs SM 54 for knitted fabrics (Pilling Box) – test method 152 – suitable for use with ASTM | 766-460 |




9. PHOTOGRAPHS AATCC - Evaluation of seams or crumpledness

| | | |
|--|----------------|---|
| Reproduces the appearance of a fabric after repeated washings AATCC Three-Dimensional Smoothness Appearance Replicas <i>Complies with test method AATCC N° 124 and 143 ISO 7768 – ISO 15487 - M & S P91 and P134</i> | |  |
| Set of 6 : SA-1, SA-2, SA-3, SA-3.5, SA-4, SA-5 | 766-492 | |
| AATCC Photographs for single and double Needle seams AATCC Test Method 88 B - ISO 7770 – EN ISO 15487 | |  |
| Per set (2) - single and double seams | 766-493 | |
| Three-Dimensional Crease Appearance Replicas <i>Complies with AATCC Test method 88C and 143 - ISO 7769 - EN ISO 15487 - M & S P134</i> | |  |
| Per set (5) : CR-1 to CR-5 | 766-499 | |
| AATCC Three-Dimensional Wrinkle Recovery Replicas <i>Complies with AATCC Test Method 128 - ISO 9867</i> | |  |
| Per set (5) : WR-1 à WR-5 | 766-494 | |
| AATCC Stain Release Replica - Test Method 130: For evaluation of the performance of soil release finishes in actual use. | |  |
| One replica incorporating 5 photographs | 766-495 | |
| AATCC Spray Test Rating Chart – AATCC Test Method 22 | | 766-456 |
| AATCC Uniformity Reference Scale <i>Barre is the optical result of physical or dye differences in yarns, geometric differences in fabric structure or any combination of these. This is a 9-step visual scale for evaluating the intensity of barre. It is used in conjunction with AATCC Test Method 128.</i> | | |
| Per unit | 766-515 | |

10. BALLAST FOR WASCATOR

| | | |
|--|----------------|---|
| Ballast – 100% cotton | |  |
| Type I (1) – approx. 4 Lb/1.8 kg - AATCC and ISO 6330 Édition 2 (2001) Per pack (16) – size 92x92 cm | 702-430 | |
| Type I (1) Complies with AATCC and ISO 6330 Édition 3 (2012) Size: 92 x 92 cm +/- 2 cm - Weight 320 g +/- 10 g Per pack (1Kg) – Delivered with conformity certificate | 702-536 | |
| Ballast - 50% Polyester et 50 % Cotton | | |
| Type III (3) – approx. ± 4 Lb/1.8 kg - AATCC and ISO 6330 Édition 2 (2001) Per pack (16) – size 92x92 cm | 702-432 | |
| Type II (2) – environ 2 kg – AATCC and ISO 6330 Édition 3 (2012) 8 pieces: 92 x 92 cm - Weight 260 g +/- 10 g | ISOB2 | |
| Ballast 100% Polyester | | |
| 100% Polyester - Type 3 Comply with M&S P1A, P1C, P3A, P4, P4A, P4B, P4C, P5, P5A, P6, P7, C15 and EN ISO 6330 :2000/Amd.1: 2008 and EN ISO 6330 : 2012 Pack of 1 kg Size: 210 x 210 mm +/- 10 mm Weight 50 +/- 5 g | 702-532 | |
| Polyester Makeweight ISO 6330: 1984, IEC 60456 and AWI/Woolmark TM31 | | |
| 100% Polyester – Per pack of 1Kg; Size: 300 x 300 mm +/- 30 mm Weight: 35 ± 3g | 702-533 | |
| Polyester Makeweight BS EN 26330 : 1994 & ISO 6330 :1984 & Next | | |
| 100% Polyester -Per pack of 1 kg Size: 300 x 300 mm +/- 30 mm Weight : ± 40gr | 702-530 | |

11. CONSUMABLES FOR GYROWASH AND WASCATOR

| | | |
|--|----------------|---|
| Pots for Gyrowash | |  |
| Pots ISO 500 ml / Test Vessel / Canister (type1) - c/w PTFE seal | 718-902 | |
| Pots ISO 1200 ml / Test Vessel / Canister (type2) - c/w PTFE seal | 718-903 | |
| Non corrodible steel balls complies with ISO 105 C06 - washing | | |
| Diameter : 6 mm, per pack (100) | 718-164 | |
| Non corrodible steel discs complies with ISO 105 D01 – dry cleaning | | |
| Diameter : 30 mm, per pack (50) | 718-163 | |
| PTFE Seals | | |
| For small test Vessel/Canister . Per set (8) | 718-512 | |
| For large test Vessel/Canister. Per set (4) | 718-516 | |
| Anhydrous Sodium Carbonate | | |
| Per pack (500g) | 706-714 | |
| Multifibre Adjacent Fabric DW – For Test Materials Mark&Spencer | | |
| Per roll (10m) | 702-515 | |
| Multifibre Adjacent Fabric DW – For Test Materials ISO | | |
| Per roll (10m) | 702-500 | |

12. DETERGENTS FOR GYROWASH AND WASCATOR

| Detergent | ISO 6330 Reference Detergent Numbers | | James Heal Stock Codes | | |
|-----------------------|--------------------------------------|-------|------------------------|---------------------------|---------|
| | 2000 | 2012 | 2 kg | 15 kg | 90 kg |
| AATCC 1993 WOB | No. 1 | No. 1 | 706-502 | 706-503 | 706-766 |
| AATCC 1993 | - | No. 1 | 706-500 | 706-501 | 706-765 |
| ECE (A) WOB | No. 2 | No. 3 | 706-652 | 706-653 | - |
| IEC (A) | No. 3 | No. 6 | 706-666 | 706-667 | - |
| IEC (A*) | No. 4 | No. 2 | 706-672 | - | - |
| JIS Class 1 | - | No. 4 | - | - | - |
| AATCC 2003 Liquid WOB | - | No. 5 | - | 706-403 3.6 US gallons | - |
| AATCC 2003 Liquid | - | No. 5 | - | 706-402 3.6 US gallons | - |

WOB = Without Optical Brightener



ECE Détergent A of [reference n°3](#) without phosphate and without optical brightener

Complies with BS EN 6330 : 2001

| | |
|------------------|---------|
| Per tub (2 Kg) | 706-652 |
| Per drum (15 Kg) | 706-653 |

IEC Détergent A of [reference n°6](#) without phosphate and with optical brightener

Complies with BS EN 6330 : 2001, ISO 105 C08 :2002 and C09 :2003

| | |
|------------------|---------|
| Per tub (2 Kg) | 706-666 |
| Per drum (15 Kg) | 706-667 |

IEC Détergent A* (A-Star) of [reference n°2](#) without phosphate en with optical brightener and enzymes

Evaluation of efficacy for washing machines complies with IEC 60456

| | |
|----------------|---------|
| Per tub (2 kg) | 706-672 |
|----------------|---------|

Detergent AATCC1993 without phosphate and without optical brightener of [reference N°1](#)

Complies with Méthodes AATCC N°96, 99, 135, 150, 160 et 179

| | |
|---|---------|
| Per tub (2 Kg) reference n°1 | 706-502 |
| Per drum (15 Kg) reference n°1 | 706-503 |
| Flacon de 13,25 liter reference n°5 | 706-403 |

Detergent AATCC1993 without phosphate, with optical brightener

Complies with Methodes AATCC N°96, 99, 135, 150, 160 et 179

| | |
|---|---------|
| Per tub (2 Kg) reference n°1 | 706-500 |
| Per drum (15 Kg) reference n°1 | 706-501 |
| Flacon de 13,25 l reference n°5 | 706-402 |

TAED (Tetra-acetylene diamine) 92% activité

Complies with BS EN ISO 6330 : 2000, BS 1006 UF-TO, BS EN ISO 105 - C08 and M & S C10A

| | |
|-----------------|---------|
| Per pack (250g) | 706-735 |
| Per pack (500g) | 706-±3 |

ECE 77 Detergent B with phosphate and without optical brightener

Complies with ISO 105 – C06:1997 & ISO 26330:1994

| | |
|------------------|----------------|
| Per tub (2 Kg) | 706-650 |
| Per drum (15 Kg) | 706-651 |

IEC Detergent B with phosphate and with optical brightener

Complies with ISO 6330 :1984, BS EN ISO 26330 :1984 ² and IEC 456

| | |
|-----------------|----------------|
| Per tub (2 Kg) | 706-654 |
| Per box (15 Kg) | 706-655 |

Programmes ISO 6330:2012

Supplied on two locked memory cards (level control and weight control)

745-075

13. DIMENSIONAL SHRINKAGE

Shrinkage Ruler Complies with **BS 4931 & ISO 3759**

| | |
|--------------|----------------|
| With perspex | 772-143 |
|--------------|----------------|

Shrinkage template

| | |
|---|----------------|
| Shrinkage template - with perspex BS 4931 & ISO 3759 | 772-123 |
|---|----------------|

Dalo markers

For loosely woven and knitted fabrics

| | |
|--------------------|----------------|
| Per pack (6) - Red | 788-350 |
|--------------------|----------------|

Markerts EverOn Indelibles – Sold by 6

| | |
|-------------------|--------------|
| Noir – Tip 1,5 mm | 31201 |
|-------------------|--------------|

| | |
|-----------------|--------------|
| Noir – Tip 2 mm | 21204 |
|-----------------|--------------|

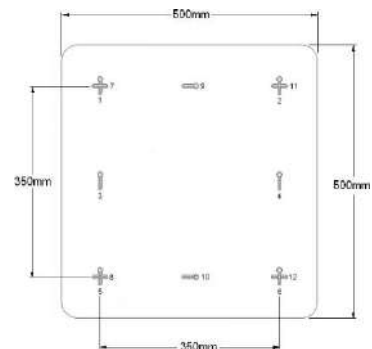
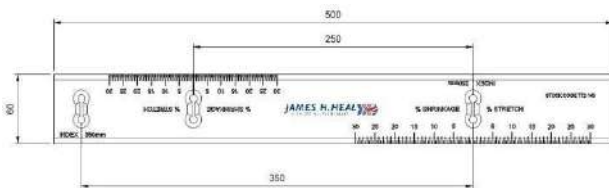
| | |
|------------------|--------------|
| Jaune – Tip 2 mm | 21201 |
|------------------|--------------|

Markers indelibles Texpens

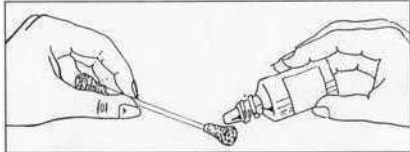
Markers Texpens
For loosely woven and knitted fabrics
Diameter of the tip: 1,2 mm
Per pack (12)

YELLOW : 788-303


BLACK : 788-302



14. CHEMICAL PRODUCT

| | | |
|---|----------|---|
| Nickel detection kit | 794-549L |  |
| Contains: - 2 bottles of solution (cont. of 20ml/bottle) based on amoniaque (± 200 tests). - 100 doubles q-tip, impregnated of dimethylglyoxime (dry) | | |

14.1 YELLOWING

| | | |
|--|---------|--|
| Glass Plates 100x40x3 mm (ISO 105 X18) – with ground and polished edges | |  |
| Per pack (10) | 716-813 | |
| Glass Separator Plates 115x60x3 mm (ISO 15701) | | |
| Per pack (10) | 716-816 | |
| Acrylic separator plates (ISO 105 E01 E02 E04) | | |
| 115x60x approx 1.5mm thick – Per pack (21) | 750-604 | |
| Impregnated test papers: 100 x 75 mm | | |
| Per pack (50) | 706-720 | |
| Per pack (150) | 706-820 | |
| Control fabrics : 100 x 30 mm | | |
| Per pack (25) | 706-709 | |
| BHT – Free Polythene Film–63 microns thick pre-cut 400 x 200 mm | | PERSPIROMETER REF : 750 – 601 WEIGHT ISO REF : 750 - 602 |
| Per box (100 pieces) | 706-792 | |

14.2 SWEAT TEST

| | |
|---|---------|
| Test Kit for tests ISO 105 Part E04 | |
| For preparation of alkaline and acidic solutions (± 200 liters). | 706-799 |
| L-Histidine Monohydrochloride Monohydrate C₆H₉O₂N₃HC1.H₂O | |
| Per pack (100 g) - Alkaline & Acidic (706-799 contains 2 of this item). | 706-703 |
| Sodium Chloride NaCl | |
| Per pack (1 kg) - Alkaline & Acidic (706-799 contains 2 of this item) | 706-704 |
| Di-sodium Hydrogen Orthophosphate Dihydrate Na₂HPO₄.2H₂O | |
| Per pack (500 g) – Alkaline (706-799 contains 1 of this item). | 706-706 |
| Sodium Di-hydrogen Orthophosphate Dihydrate NaH₂PO₄.2H₂O | |
| Per pack (500 g) – Acidic (706-799 contains 1 of this item). | 706-705 |
| Narrow Range pH Paper (pH4-7) | |
| Per reel (706-799 contains 2 of this item) | 706-719 |
| Narrow Range pH Paper (pH6-8) | |
| Per reel (706-799 contains 2 of this item) | 706-702 |

| | |
|--|----------------|
| Measuring Cylinder 1000 ml x 10 ml graduations | |
| Unit (706-799 contains 1 measuring). | 716-801 |
| Beaker 1000 ml x 200 ml graduations | |
| Unit (706-799 contain 1 beaker). | 716-802 |
| Spatula | |
| Unit (706-799 contains 1 spatula). | 716-804 |
| Glass rod | |
| Unit (706-799 contains 1 glass rod). | 716-803 |
| Disposable gloves | |
| Per pack (10)- (706-799 contains 1 pack of 10 glaves). | 706-791 |

15. VERIVIDE

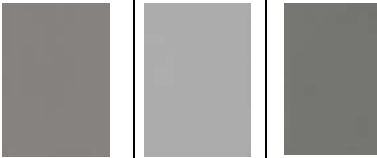
15.1 LAMPS FOR LIGHT CABINET VERIVIDE

| CAC 60 | |
|--|----------------|
| D65 ² FUV | 708-851 |
| D65TL84FUV | 708-853 |
| D65TL84F (no UV is supplied with this set) | 708-858 |
| D65TL83FUV | 708-854 |
| D65TL83FTL84 | 708-855 |
| D65TL84FTL83 | 708-856 |
| D65UVBFUV | 708-857 |
| D65 T8 Artificial Daylight Tube – 6500K – 18W | 709-035 |
| 840P15 (formerly TL84) – M&S approved – 4000°K – 18W | 709-032 |
| TL83/830 – 3000°K – 18W | 709-024 |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 |
| Ultraviolet Black (UV) – 25mm dia – 18W | 708-946 |
| | |
| CAC 60-5 | |
| D65TL84TL83FUV | 708-888 |
| D65TL84CWFFUV | 708-885 |
| D65TL84D75FUV | 708-887 |
| D65TL84UVAH | 709-709 |
| Cool White (CWF) – color 33 – 4200°K – 18W | 708-955 |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 |
| Ultraviolet Black (UV) – 25mm dia – 18W | 708-946 |
| | |
| CAC 120 | |
| | |
| D65TL84FUV | 708-863 |
| D65TL83FUV | 708-864 |
| D65TL83FTL84 | 708-865 |
| D65TL84FTL83 | 708-866 |
| D65UVBFUV | 708-867 |
| D65 T8 Artificial Daylight Tube – 6500K – 36W | 709-036 |
| 840P15 (formerly TL84) – M&S approved – 4000°K – 36W | 709-033 |
| TL83/830 – 3000°K – 40W | 708-942 |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 |
| Ultraviolet Lamp (Slimline) – 36W | 709-027 |
| CAC 120-5 | |
| D65TL84TL83FUV | 709-711 |
| D65TL84CWFFUV | 708-174 |
| Cool White (CWF) – color 33 – 4200°K – 40W | 708-953 |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 |
| Ultraviolet Lamp (Slimline) – 36W | 709-027 |
| CAC 150 | |
| D65 ² FUV | 708-871 |
| D65TL84FUV | 708-873 |
| D65TL83FUV | 708-874 |
| D65TL83FTL84 | 708-875 |




| | | |
|--|----------------|--|
| D65TL84FTL83 | 708-876 | |
| D65 T8 Artificial Daylight Tube – 6500K – 58W | 709-037 | |
| 840P15 (formerly TL84) – M&S approved – 4000°K – 58W | 709-034 | |
| TL83/830 – 3000°K – 65W | 708-943 | |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 | |
| Ultraviolet Lamp (Slimline) – 36W | 709-027 | |
| CAC 150-5 | | |
| D65TL84TL83FUV | 709-714 | |
| D65TL84CWFFUV | 709-713 | |
| Cool White (CWF) – color 33 – 4200°K – 65W | 708-954 | |
| Bulb (40W) – Filament (F) – 2300 – 2800°K | 708-961 | |
| Ultraviolet Lamp (Slimline) – 36W | 709-027 | |

15.2 PAINTING

| | | |
|---|----------------|--|
| Emulsion paint color Munsell n° 5 (dark grey) | |  |
| Per container (0,5 liter) Color standard textile | 707-101 | |
| Emulsion paint color Munsell n° 7 (light grey) | | |
| Per container (0,5 liter) Color standard Amérique (marketing) | 707-102 | |
| Emulsion paint color - Standard grey 55± | | |
| Per container (0,5 liter) Color standard Mark & Spencer (Royaume-Uni) | 707-100 | |
| Maintenance Kit Contains : Tin (0,5 ltr) Paint, Paint roller and frame, plastic roller tray, Paint brush, Sandpaper, 2 anti-static moist cleaning wipes, dry wipe cleaning cloth and protective gloves and apron. | | |
| Maintenance Kit containing G5574 / 14.40 D paint | | N5 N7 5574 |
| Maintenance Kit containing « Munsell N°5 » paint | | 707-190 |
| Maintenance Kit containing « Munsell N°7 » paint | | 707-191 |
| Maintenance Kit containing « Munsell N°5 » paint | | 708-192 |

15.3 TABLE

| | | |
|--|----------------|---|
| Variable Angle Tilting Table | |  |
| Dimensions : 590x215x300 mm (L*h*w) Viewing Surface: 530x300 mm (L*I) | 708-891 | |
| 45° Fixed Angle Table (M&S) | | |
| Dimensions : 530x225x210 mm (L*h*w) Viewing Surface: 530x300 mm (L*I) | 708-892 | |

16. COLOR RESISTANCE TO FRICTION FOR CROCKMETER

| | |
|---|----------------|
| Crocking cloths 5 x 5 cm complies with ISO 105 X12 – | |
| Approved by Marks & Spencer | |
| Per pack (500) - 110g/m ² ± 5g/m ² | 702-540 |
| Crocking cloths 5 x 5 cm complies with AATCC TM8 | |
| Per pack (1000) - 100g/m ² ± 3g/m ² | 702-424 |
| METHOD OF TEST PSA-RENAULT AUTOMOBILE D45 1010 | |
| Crocking cloths 5 x 5 cm complies with Method D45 1010 | |
| Complies with ISO 105 X12 115 g/m ² ± 5 g/m ² - Per pack (100) | 702-540 |
| Non adhesive crocking cloths Diam: 16 mm, density : 250 g/m ² (+/- 10%) Thickness : 1 mm +/- 10 % | |
| Per pack (1000) | 701.FROTT-R/U |
| Adhesive crocking cloth Diam: 16 mm, density : 250 g/m ² (+/- 10%) Thickness : 1 mm +/- 10 % | |
| Per pack (1000) | 701.FROTT-RONA |



CROCKMETER MANUEL
With digital counter




COLOR RESISTANCE TO AGING

| | |
|--|---------|
| LAMP MBU FOR MICROSOL Complies with ISO 105-B01 with adaptator from E40 to E39 | |
| Per unit | 794-740 |
| LAMP XENON for Suncheck, Suntest and solarbox | |
| 1500W lifetime 1500h | S540 |
| 2500W lifetime 1500h | S560 |

17. ABRASIMETRE SOLES

| | |
|--|-------|
| Elastomer reference n° 1 Standard rubber sheet complies with DIN 53516 and ISO 4649 Annexe B.2 | |
| Dimensions 186 x 186 x 8 mm – Weight 380g | E001B |
| Elastomer reference n° 2 Standard rubber sheet Complies with DIN 53516 and ISO 4649 Annexe B.3 | |
| Dimensions 345 x 120 x 3 mm – Weight 380g | E003B |
| Abrasive paper for drum Complies with DIN 53516 and ISO 4649 | |
| Dimensions 402 x 474 mm – Weight 210 g – price per sheet | E002B |



| | | |
|---|--|----------------|
|  | BURST TESTS (TRUBURST) | |
| | Reinforced Diaphragms (1 mm) | |
| | Per pack (10) | 777-133 |
| | Reinforced Diaphragms (1,5 mm) | |
| | Per pack (10) | 777-135 |
| | Low Pressure Diaphragms (0.2mm thick) - per pack (10) | |
| | Per pack (10) | 777-150 |
| | Membranes for brighnessometer Adamel Lhomargy (1,05 mm) | |
| | For cloth, set of 5 membranes | 361254 |

18. COLOR RESISTANCE TO LIGHT

One set included 8 standard blue wools graduated from 1 (low light fastness) to 8 (high lightfastness). Standards are dyed with choice and individually, the wool is dyed to match with a set of dominant standards, respecting colors and fading characteristics.

Blue Wool for standard light complies with ISO 105B02
Tests for color fastness to light
Pieces of 230 x 150 mm

| | |
|------------------------------|----------------|
| Game of 8 pieces N° 1 to 8 | 766-310 |
| ISO Blue Wool Standard No. 1 | 766-311 |
| ISO Blue Wool Standard No. 2 | 766-312 |
| ISO Blue Wool Standard No. 3 | 766-313 |
| ISO Blue Wool Standard No. 4 | 766-314 |
| ISO Blue Wool Standard No. 5 | 766-315 |
| ISO Blue Wool Standard No. 6 | 766-316 |
| ISO Blue Wool Standard No. 7 | 766-317 |
| ISO Blue Wool Standard No. 8 | 766-318 |

ISO Blue Wool Standards n°1 to 8 - complies with ISO 105-B02

| | |
|--|----------------|
| Pre-mounted 10 mm wide strips on card Per pack (10 cards) Card size: 135 x 45 mm | 766-820 |
|--|----------------|

ISO Humidity test control fabric – complies with ISO 105-B02

| | |
|-------------------------|----------------|
| Per pack (250 x 150 mm) | 766-476 |
|-------------------------|----------------|

Set of 3 stainless steel bars to partially cover the samples and hold them during the test

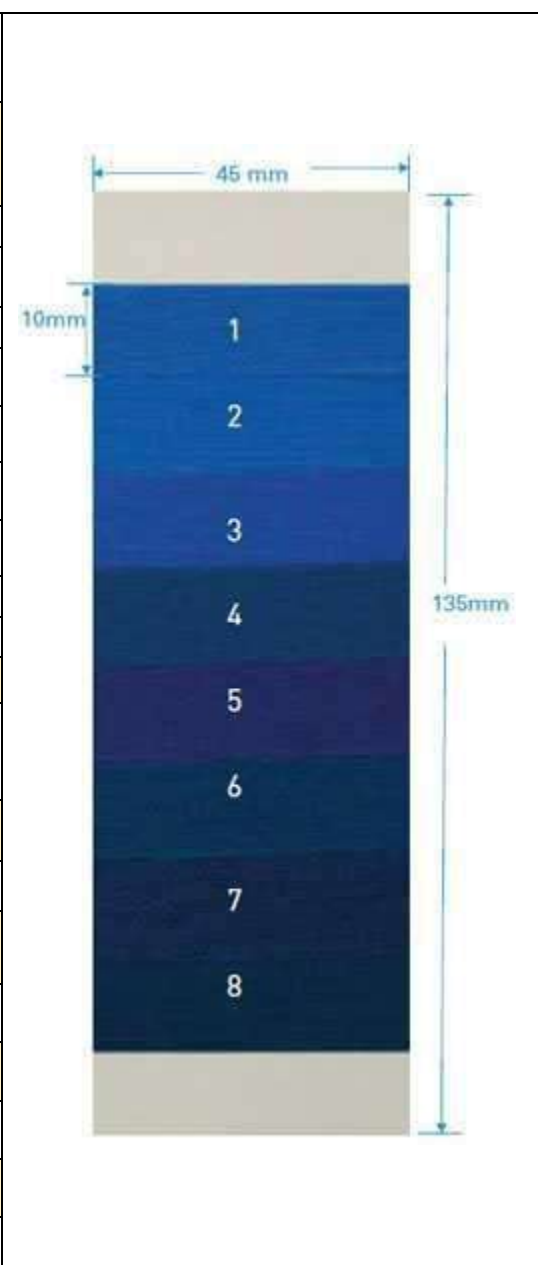
| | |
|----------------------------|-------------------|
| Set of 3 bars - steel inox | S200BARS/U |
|----------------------------|-------------------|

OBA – Free White Specimen Cards - 135 x 45 mm

| | |
|----------------|----------------|
| Per pack (500) | 766-570 |
|----------------|----------------|

Grey Scale for Assessing Change in Color ISO 105 -A02


| | |
|----------|----------------|
| Per unit | 766-200 |
|----------|----------------|



19. CONTROL FABRICS

| Perborate sensitive fabrics complies with norme ISO 105 C06 (B2) and M & S C10 | |
|---|--------------------|
| Perborate Sensitive Fabric P1 - Wide 1570 mm – Per pack (1 m) | 702-390 |
| Perborate Insensitive Fabric P2 - Wide 1570 mm – Per pack (1 m) | 702-391 |
| Control fabrics ISO 105 G01-02 (ruban viscose) For tests GAS Fading approved by AATCC. In rol of 50 yards x 2.5 cm & fabrics to evaluate the degradation. | GFC-UNIT |
| ISO G01 – CHROMSEAL 9001. Sold by set of 25 pieces | S-CHROMSEAL |
| Control fabrics with special artificial stain (EMPA) | |
| Cotton fabric with stain IEC black from carbon/ mineral oil | 106 EMPA |
| Cotton fabric with stain IEC black from carbon/ olive oil | 101 EMPA |
| Fabric mixte polyester 65/cotton with stain black from carbon / olive oil | 104 |

20. FLAMMABILITY TEST

| | | |
|--|----------------|---|
| Marker thread (46.5 tex) | |  |
| Per pack (2 x 500 m) | 785-504 | |
| Filter papers 460 x 570 mm | | |
| Per pack (100) | 789-515 | |
| Filter papers 580 x580 mm | | |
| Per pack (500) | 789-527 | |
| 789-527 is applicable to the following standards : EN 1102 : 1996 EN 1103 : 1996 EN 13772 : 2003 Otherwise, use 789-515 | | |
| Ignition Fabrics Pre-washed, pre-cut (50 x 20 mm) For EN 13772 | | |
| Per pack (500) | 702-472 | |
| Wooden Crib, Ignition Source 5, 17 ± 1g, Softwood, Scots Pine (Pinus sylvestris) | | |
| Per box (105) | 785-550 | |
| Wooden Crib, Ignition Source 7, 126±4g, Softwood, Scots Pine (Pinus sylvestris) | | |
| Per box (24) | 785-552 | |
| <i>Cribs are used for testing upholstery for non-domestic use. They comply with the following standards :</i> BS 5852, BS5852-2, BS5815-3, BS1892-2, BS 7175, BS 7176, BS 7177, FTS6, BS 6807, EN 597-2, NHS Firecode and others | | |
| Burnst complies with BS 5438 :1989 tests 2A and 2B - BS EN 1101 :1996 (80x80 mm) - BS EN 1101 :1996 (200x80 mm) - BS EN 1102 :1996 - BS EN 1103 :1996 - BS EN 13772 :2004 - BS EN ISO 6940 :1995 (80X80 mm) - BS EN ISO 6940 :1995 (200x80 mm) - BS EN ISO 6940 :2004 - BS EN ISO 6941 :2003 - BS EN ISO 15025 :2002 tests A and B | | |

21. REFERENCE FABRIC “STANDARD MATERIALS” (SM)

SM reference materials have been developed in collaboration with WOOLMARK and are mainly used for IWS test methods. These products are manufactured under the control of James HEAL and are part of HEAL's « Assured Quality Consumables » range.

| | | | | | |
|--|---------------|---------------|----------------|---------------|----------------|
| SM12 (100% no treated wool fabric) <ul style="list-style-type: none"> Used by washing machine and detergent producers Used to check the washing machine regarding IEC 60456 Used to check the wool cycle of washing machine | | | | | |
| Per pack of 5m | | | | | 701-332 |
| SM13 (Wool Fabric – against shrink) <ul style="list-style-type: none"> Regular withdrawal rate Used to evaluate mechanical action and removal | | | | | |
| Per pack of 5m | | | | | 701-402 |
| SM 25 Martindale Abrasif Cloth SM 25 complies with EN ISO 12947-1: 1999 (abrasion EN ISO 12945-2) Wide : 1600 mm | | | | | |
| Per pack of 5 m | | | | | 701-202 |
| Per roll (25m) | | | | | 701-200 |
| Per roll (50m) | | | | | 701-203 |
| SM25 Pre-cut Discs of Martindale Original Abrasive Cloth complies with EN ISO 12947-1 | | | | | |
| 140 mm diameter Per pack (100) | | | | | 701-207 |
| SM29 (Knitted wool treated against shrink Hercosett) complies with Woolmark TM 240/300 <ul style="list-style-type: none"> Used to evaluate color fastness to detergents and bleaching agents. | | | | | |
| Wide 430 mm Per pack of 1m | | | | | 702-392 |
| SM29 (Knitted wool against shrink Hercosett) complies with Woolmark TM 240/300. <ul style="list-style-type: none"> Used to evaluate color fastness to detergents and whiteners | | | | | |
| Wide 700 mm Per pack of 1 m | | | | | 702-458 |
| SM38 (Wool fabric treated against shrink) <ul style="list-style-type: none"> Product developed specially for Woolmark Used to determinate the drum drying cycle | | | | | |
| Per pack of 5 meter | | | | | 701-404 |
| SM30 Perborate Sensitive Fabric P1 complies with ISO 105 C06 (B2) and M&SC10 | | | | | |
| Wide 1570 mm Per pack of 1 m | | | | | 702-390 |
| SM30 Perborate Insensitive Fabric P2 complies with ISO 105 C06 (B2) and M&SC10 | | | | | |
| Wide 1570 mm Per pack of 1 m | | | | | 702-391 |
| SM53 (Wool fabric untreated) N°1 <ul style="list-style-type: none"> Products developed specially for Woolmark Used to test detergents and bleaching agents (Woolmark TM240) 12 shades numbered from 1 to 12. Per pack (1 meter) | | | | | |
| N°1 = 701-208 | N°7 = 701-231 | N°3 = 701-211 | N°9 = 701.233 | N°5 = 701-213 | N°11 = 701-235 |
| N°2 = 701-210 | N°8 = 701-232 | N°4 = 701-212 | N°10 = 701.234 | N°6 = 701-230 | N°12.= 701-236 |

22. PANTONE RANGE FASHION + HOME

Collection for paper support



◀ [Color guide-paper](#)

Classified by color family, this color range of paper, with more than 2.3610 colors was designed for portable use. Each color has a numerical reference and an inspiring color name.

FHIP210

[Color specifier paper](#) ▶

FHIP230



This new edition of Color Specifier & Guide Set present the 2 310 Colors FASHION, HOME + INTERIORS available, that were created from new, more environmentally friendly formuls.

They are accompanied by a new PANTONE color suffix: TPG (Textil Paper - « Green » (environmentally friendly)).

Ability to renew your Color Specifier Paper pages according to your needs.

Support Chromatique (électronique)



RM200-PT01

◀ [Capsure](#)

Compact, portable device that allows you to measure and match color shades instantly with reliability. Designed for fashion, home, interior, industrial design and computer graphics professionals, Capsure accurately identifies the color shade of all materials, fabrics and surfaces, and finds it an equivalent amongst the different PANTONE color libraries.

[Color Manager Software](#)

PANTONE Color Manager software automatically updates the PANTONE color libraries available in QuarkXPress®, Corel®, and Adobe® Creative Suite® graphics applications. PANTONE Color Manager provides access to all PANTONE colors. (For Macintosh OS X 10.2 minimum and Microsoft Windows 2000 or XP)

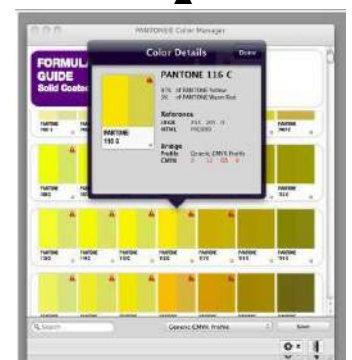


MEU115








◀ [Color Munki Design](#)

Screen and printer calibrator. Tune in your monitor and printer: ColorMunki is the first affordable all-in-one device for your color needs.



FSX101

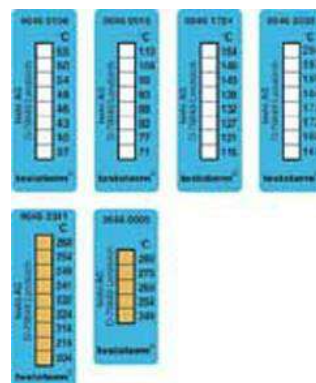
| Support Cotton | | |
|---|---|--------------------|
|  | <u>Cotton Swatch Library 5cm x 5 cm</u> | FHIC 100 |
| | <p>2,310 colors covering a wide range of shades in each color family cleverly displayed to enhance the visualization and organization of pallets. The Pantone Cotton Swatch Library is composed of seven volumes that fit in a volume holder design and protector.</p> | |
|  | <u>Cotton Chips Set 2.cm x 2.5 cm</u> | FHIC400 |
| | <p>Chromatic presentation of the 2.310 Pantone colors on « 1x 1 » cottons amples. The samples are easily removed from their notebook for easier color selection. The collection is presented in two volumes.</p> | |
|  | <u>Cotton Passport 2.5 x 1 cm</u> | FHIC200 |
| | <p>This compact and portable book (12.7 x 20.3 cm) contains all colors, or 2.310, in the form of cotton samples, particularly practical thanks to its manufacture in accordion, foldable and unfoldable at will. New color scheme for intuitive selection and easy to consult</p> | |
|  | <u>Cotton Planner 1cm x 1cm</u> | FHIC300 |
| | <p>Organized according to a chromatic model by color family, this compact reference volume contains more than 2.310 tablets in a single workbook. New color scheme for intuitive selection and easy to consult.</p> | |
|  | <u>Nylon Brights Set</u> | FFN100 |
| | <u>Swatch Cards Nylon Brights 10cm x 10cm</u> | SWCDXTN |
| | <p>21 fluorescent colors, hot and flash available in Swatch Card individual or full range on support ring</p> | |
| | <u>Swatch Cards 10 cm x 10 cm</u> | SWCDX SMART |
| | <p>Individual double-layer fabric available for 2,100 Pantone colors that provide an accurate way to choose, specify, control and communicate color choices. The double-fold fabric measures 10 x 10 cm. Or, unfolded, 10 x 20 cm. Each card is composed of four bands with name and color reference so that a sample can be cut.</p> | |

23. THERMO-RIBBONS

Thermo-ribbons in 10 piece notebooks

Different temperature range

| | |
|-----------------|----------|
| +37°C à +65°C | 646-0108 |
| +71°C à +110°C | 646-0916 |
| +116°C à +154°C | 646-1724 |
| +161°C à +204°C | 646-2532 |
| +204°C à +260°C | 646-3341 |



24. MAGNIFYING GLASS

Magnifiers – Black Metal

| | |
|--|--------------|
| 10 x 10 mm - x 9 – Double lens – Graduation in steps of 1 mm | 1209-WZ3 |
| 15 x 15 mm - x 8 – Double lens – Graduation in steps of 1 mm | 3408-WZ3 |
| 25 x 25 mm - x 6 – Double lens – Graduation in steps of 1 mm | 1006-WZ3 |
| Magnifying glass magnification x8 <ul style="list-style-type: none"> • Axis : 0-20 mm • Graduation : 0.1 mm • Grey metal with case | |
| For right-handed | 3408-WZ3-S-R |
| For left-handed | 3408-WZ3-S-L |



Microscope magnifier

| | |
|--------------------------------------|---------|
| Measured 3 mm – Field of 3.3 mm x 25 | 2008-25 |
|--------------------------------------|---------|

Illuminated magnifiers on a heavy base

| | |
|--|--------|
| Lens : 19 x 16 cm Magnification : 5 dioptries Lighting : 2 x 9 w – 220 V | 900011 |
|--|--------|



25. TEST OF RESISTANCE OF SEAMS

Fil EPIC Polyester M & S P12 and 13936-1 and 2 : 2004

| | |
|--|---------|
| Tex 21 - (10 x 1000 meters) – color : white 1700 | EPIC150 |
| Tex 24 - (10 x 1000 meters) – color : white 1700 | EPIC120 |
| Tex 30 - (10 x 1000 meters) – color : white 1700 | EPIC100 |
| Tex 40 - (10 x 500 meters) - color : white 1700 | EPIC80 |
| Tex 50 - (10 x 1000 meters) - color : white 1700 | EPIC60 |
| Tex 80 - (10 x 1000 meters) - color : white 1700 | EPIC40 |
| Tex 105 - 10 x 300 meters) - color : white 1700 | EPIC30 |

Adoucissant M & S P12

| | |
|---|---------|
| Per container (5litres) Standard Fabric Conditioner | 706-680 |
|---|---------|

26. MEASURING THE RATE OF FAT – RAPID OIL EXTRACTION UNIT

Cups for Rapid Oil

| | |
|---------------|--------|
| Per pack (50) | ROESTY |
|---------------|--------|

27. ABRASIMETERS SOCKS

Shoe pads

| | |
|-------------------------------------|------------|
| Per pack of 20 pads of 50 mm (1 ml) | ABRASIM-PA |
| Per pack of 20 pads of 50 mm (1 ml) | ABRASIM-PA |

| | |
|--|------------------|
| Abrasive cloth (55% Polyester/45% laine) according to D44 1846 (Martindale), NFG 37-110, PSA D44 1073 and PSA D47 5530 | |
| Per pack (5m) – Laize 155 cm | 3049-5 |
| Woven felt pads 100% wool – According to Test method PSA Renault D44 1073 (tests on TPE and leather) laize 145 cm - ecru | |
| Per pack (5m) - Laize 145 cm – Écru | 41LN1/5 |
| White felt bands - Density 0,360 g/cm ³ - Long : 1 mètre - Wide : 90 mm, Thickness : 8 mm +/- 10% | |
| Price per piece - Minimum of order : 4 pieces – Livred with conform certificate | B-PLB36/4 |
| Polyurethan foam - Complies with D44 1073 and D45 5600 (Linting) - 25 Kg/m ³ +/- 3 | |
| Price per tray – Tray of 1000 x 1500 x 10 mm | PU25N |



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