

11. Cleanroom, Cleaning and sterilisation

Cleanroom/Eye protection

Cleanroom Classifications

ISO Classification Number	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1.0 µm	5.0 µm	SI	English Former FED-STD-209E
ISO Class 1	10	2						
ISO Class 2	100	24	10	4	8			
ISO Class 3	1,000	237	102	35	83		M 1.5	1
ISO Class 4	10,000	2,370	1,020	352	832	29	M 2.5	10
ISO Class 5	100,000	23,700	10,200	3,520	8,320	293	M 3.5	100
ISO Class 6	1,000,000	237,000	102,000	35,200	83,200	2,930	M 4.5	1,000
ISO Class 7				352,000	832,000	29,300	M 5.5	10,000
ISO Class 8				3,520,000	8,320,000	293,000	M 6.5	100,000
ISO Class 9				35,200,000	83,200,000	2,930,000		

Class	Maximum particles / m ³			
	At Rest ≥ 0.5 µm	At Rest ≥ 5 µm	In Operation ≥ 0.5 µm	In Operation ≥ 5 µm
Grade A	3,520	20	3,520	20
Grade B	3,520	29	352,000	2,930
Grade C	352,000	2,930	3,500,000	29,300
Grade D	3,520,000	29,000	Not defined	Not defined

1



1 Safety Eyeshields uvex super fit CR 9178

NEW
uvex



- Professional protection of products and humans
- First autoclavable protective spectacle with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121°C, 20 minutes
- Innovative design for maximum functionality and wearer comfort
- Non-allergenic material which is free of harmful substances
- Ultra-thin wraparound lens
- Lightest safety spectacle in the world
- EN 166
- UV 400
- Weight 21 g

coating uvex supravision clean

Colour	Lens	Coating	PK	Cat. No.
white/light blue	UV 400, 2C-1,2 W 1 FTKN DIN CE	uvex supravision CR	1	7.982 028



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11. Cleanroom, Cleaning and sterilisation Cleanroom/Eye protection

1 Overgoggles uvex super f OTG CR 9169



1



- Professional protection of products and humans
- First autoclavable protective overspec with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121 °C, 20 minutes
- Innovative design for maximum functionality and wearer comfort
- Overspecs with unrestricted lateral vision
- Also suitable for use over prescription spectacles
- Non-allergenic material which is free of harmful substances
- Ultra-modern lens technology
- Extremely flexible soft ear pieces
- EN 166
- UV 400
- Weight 37 g

Coating uvex supravision clean.



Colour	Lens	Coating	PK	Cat. No.
white/light blue	clear, UV 400, 2C-1,2	uvex supravision clean	1	6.268 419

2 Panoramic Eyeshield uvex ultrasonic CR 9302



2



- Professional protection of products and humans
- First autoclavable protective goggle with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121 °C, 20 minutes
- Innovative design, maximum functionality, wearer comfort
- Ultra-light goggle with panorama lens, duo component technology and adjustable silicone headband
- Indirect ventilation ensures a pleasant and comfortable interior environment
- Easy lens replacement
- Flexible soft components
- Wide panoramic field of vision
- Non-allergenic material which is free of harmful substances
- EN 166
- UV 400
- Weight 98 g

coating uvex supravision clean



Colour	Lens	Coating	PK	Cat. No.
white	clear /UV 2-1,2	uvex supravision clean	1	6.262 943

3 Panoramic Eyeshield for cleanroom



3



- Cleanroom mask designed for use in rooms with controlled contaminations (sterile and clean rooms) or in aseptic conditions. Its soft structure supports multiple cycles of steam, gamma or beta sterilization without perceptible changes.
- Sterilizable through autoclave with steam and with gamma and beta radiations at 25 kGy
 - New elastic strap in antistatic silicone
 - Innovative quick elastic band adjustment system
 - Available with direct and indirect ventilation



Colour	Description	Lens	PK	Cat. No.
blue	elastic headband, directly ventilation	clear / 2C-1.2 U 1 B CE	1	6.286 799
blue	elastic headband, indirectly ventilation	clear / 2C-1.2 U 1 B CE	1	6.286 800

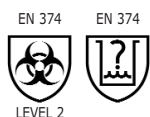
11. Cleanroom, Cleaning and sterilisation

Cleanroom/Hand protection



1 Gloves KIMTECH PURE*G3, latex, powder free, sterile

Kimberly-Clark



- Recommended for ISO Class 3 or higher cleanroom environments
- Natural rubber latex for tactile sensitivity and comfort
- Beaded cuff, for added strength and ease in donning
- Textured palms and fingers
- Powder free-minimising contamination and the drying effects of powder on skin
- Hand specific
- Low protein and low endotoxin levels
- Walleated & pouched in polyethylene for cleanroom use
- This product is classified by EC Council Directive 89/686/EWG. It is tested in accordance with the EN Norms EN 420:2003 **Cat. III Low Chemical resistant.**
- Meets AQL of 1.5
- Manufactured in accordance with Quality System ISO 9001
- Box of 10 x 20 pairs. Individually packed per pair.

Size	Length cm	PK	Cat. No.
6	30	200	4.652 643
6,5	30	200	6.267 248
7	30	200	6.267 249
7,5	30	200	6.267 250
8	30	200	6.267 251
8,5	30	200	6.237 698
9	30	200	6.267 252
10	30	200	6.267 253



2 Gloves Niprotect 529, nitrile

NEW
MAPA



Reinforced mechanical resistance for short-term operations. Manufacturing process guarantees a very low level of contaminants: rates of particles, non-volatile residue, extractables; compatible with ISO 5 class (Class M3.5 for International system). 100 % nitrile formula enables anti-static properties. Protection against accidental chemical splashes. Recommended for people who are sensitive to the proteins in natural latex.

- **Cat. III**
- Packaging: 100 gloves/bag
- Thickness: 0.1 mm

Size	Length cm	PK	Cat. No.
6	30	1	6.270 501
7	30	1	6.270 502
8	30	1	6.270 503
9	30	1	6.270 504
10	30	1	6.270 505

11. Cleanroom, Cleaning and sterilisation Cleanroom/Hand protection

1 Gloves, Nitrilite® Silky

NEW
Ansell

1

EN 374 EN 374



Produced in a controlled powder-free environment, they feature exceptionally low levels of extractable and particles for excellent product protection. The 100 % nitrile polymer prevents the risk of allergies related to latex proteins for the wearer. It also provides exceptional chemical and puncture resistance for further safety. All this, added to optimal electrical properties, makes Nitrilite® gloves ideal for a wide range of industrial sectors.

- AQL of 1.5
- **Cat. III**

Packaging: 50 gloves vacuumsealed in an unprinted polybag, two bags of 50 gloves per master polybag. All packaging and labeling is printed with IPA-resistant ink. The gloves are doublebagged for superior contamination control. Packed in a ISO Class 5 cleanroom.

Size	Length cm	PK	Cat. No.
S	30	100	6.253 290
M	30	100	6.253 291
L	30	100	6.253 292
XL	30	100	6.253 293
XXL	30	100	6.262 160

2 Gloves, KIMTECH PURE*G3 STERLING*, nitrile, sterile

EN 374 EN 374



Kimberly-Clark

2



KIMTECH PURE*G3 Sterile STERLING*Nitrile Gloves offer improved performance and comfort and are better for the environment.

- Recommended for ISO Class 3 or higher cleanroom environments
- Meets AQL of 1.5 or better
- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Static dissipative in use
- Safe handling of objects due to improved and consistent grip
- Hand specific
- Walleled & pouched in polyethylene for cleanroom use
- Packaged for aseptic donning
- **Cat. III**
- Box of 10 x 30 pairs. Individually packed per pair

Size	Length cm	PK	Cat. No.
6	30	300	6.264 797
6,5	30	300	6.264 798
7	30	300	6.264 799
7,5	30	300	4.652 645
8	30	300	6.265 200
8,5	30	300	6.265 201
9	30	300	6.265 202
10	30	300	6.265 203

11. Cleanroom, Cleaning and sterilisation

GENERAL CATALOGUE EDITION 20

Cleanroom/Hand protection



1 Gloves, KIMTECH PURE*G3 nitrile, sterile

NEW

Kimberly-Clark



Sterile validated and clean processed, with lot testing for low levels of particles. PPE Category III certified under CE directive 89/686/EEC for Personal Protective Equipment.

Tested for permeation resistance to cytotoxic drugs. Ideal for use in sterile pharmaceutical manufacturing EU GMP ISO 5 CLASS A areas. Providing protection against chemical splash and micro-organism hazards acc. to EN374-1:2003, EN374-3:2003, ASTM 6978-05. AQL 1.5/EN374-2.

- ISO16604 virus resistant. Sterile Validated to SAL 10⁻⁶

- Available as one pair of hand specific gloves; 30 cm long, with beaded cuff for added strength and fully textured palm and fingertips, combining enhanced grip with easy double donning.
- Comfortable fit, with silicone free formulation
- Individually packed in sterile wallets

Size	Length cm	PK	Cat. No.
6	30	200	6.257 260
6,5	30	200	6.240 584
7	30	200	6.265 204
7,5	30	200	6.240 077
8	30	200	6.230 011
8,5	30	200	6.252 634
9	30	200	6.235 083
10	30	200	6.265 205



2 Gloves Trionic 517, Tri-Polymer

NEW

MAPA



A tri-polymer exclusive that offers 100 % comfort for optimal mechanical and chemical resistance. Excellent resistance and strong chemical protection against a great number of chemical products: exclusive Trionic formula made from a mix of natural latex, neoprene and nitrile. Manufacturing process guarantees a very low level of contaminants: rates of particles, non-volatile residue, extractables. Compatible with ISO 5 class (Class M3.5 for International system).

Wide cuff for double-gloving.

- **Cat. III**
- Packed per pair
- Thickness: 0.5 mm

Size	Length cm	PK	Cat. No.
6	36	1	6.304 079
7	36	1	6.303 886
8	36	1	6.303 887
9	36	1	6.281 467
10	36	1	6.281 468



3 Undergloves polyester, nylon

NEW

ASPURE

The undergloves made of 100 % polyester or nylon are highly breathable and have an excellent fit due to their high flexibility. The cuff at the wrist is processed in such a way as to prevent fraying and thus the generation of lint, making it ideal for use in cleanrooms. Furthermore, the gloves can be used not only as undergloves, but also for precision work to prevent impurities such as fingerprints. In order to be able to recognize the different sizes more easily, the gloves differ in the colors of the cuffs. Carton with 30 x 10 pairs.

Size	Material	Colour	PK	Cat. No.
S	polyester	white	300	4.659 021
M	polyester	green	300	4.659 020
L	polyester	gray	300	4.659 019
XL	polyester	brown	300	4.659 018
S	nylon	white	300	4.659 025
M	nylon	green	300	4.659 024
L	nylon	gray	300	4.659 023
XL	nylon	brown	300	4.659 022

11. Cleanroom, Cleaning and sterilisation Cleanroom/Hand protection-Protective clothing

1 Finger cots natural rubber

NEW
ASPURE

The finger cots made of antistatic natural rubber, with a thickness of min. 0.09 mm, are ideal for applications where the highest precision and fingertip sensation is required. Due to microtexturing, they are also especially handy.
Surface resistance: 10E10~120Ω



Size	Material	PK	Cat. No.
S	natural rubber, rolled edge	1440	4.659 035
M	natural rubber, rolled edge	1440	4.659 036
L	natural rubber, rolled edge	1440	4.659 037
S	natural rubber, cut edge	1440	4.659 038
M	natural rubber, cut edge	1440	4.659 039

2 Laboratory coat KIMTECH Science*A7 P+

EN 1149



Kimberly-Clark

- Certified PPE Cat III directive 89/686/EEC
- Type 6 limited chemical splash protection
- Micro-organism protection tested
- EN1149-1:1995 Antistatic clothing
- High performance chemical resistant fabric
- Low lint fabric, Helmke Drum Category II
- 99 % particle and bacterial filtration efficiency
- Individually packed, 15 p. in an outer package for ISO 7 Grade C areas
- Silicon-Free

- Abrasion-resistant film-coated polypropylene
- Mandarin collar
- Elastic cuff, thumb-loops and extra-length arms
- High strength triple stitched seams

Size	PK	Cat. No.
S	15	4.653 906
M	15	4.653 907
L	15	4.653 908
XL	15	4.653 909
XXL	15	4.653 910



3 Disposable Chemical Protection Coverall 4B

Material: polyethylene-laminate

uvex

- colour white/orange
- excellent wearer comfort due to the breathable, light and flexible material
- self-adhesive zipper flap and taped seams ensure optimum protection against penetration by liquid aerosols and solid particles
- the hood is easily compatible with filtering face masks
- middle finger loops prevent sleeves from sliding up
- silicone free
- suitable for cleanroom environment (Class 7, ISO 14644-1)
- chemical protection: personal protective equipment category 3, EN 14605(Type 4), EN ISO 13982-1(Type 5), EN 13034(Type 6), EN 1149-5, EN 14126,

Size	PK	Cat. No.
S	5	9.414 100
M	5	9.414 101
L	5	9.414 102
XL	5	9.414 103
XXL	5	9.414 104
XXXL	5	9.414 105



11. Cleanroom, Cleaning and sterilisation

Cleanroom/Protective clothing

GENERAL CATALOGUE EDITION 20

1



1

Disposable coverall Tyvek® IsoClean®, with collar/hood, sterile

DuPont™ Tyvek® IsoClean® coverall with collar, model IC 182 B WH CS.

DuPont de Nemours

Clean-processed and gamma-sterilised. Coverall with collar, available in white in sizes M to XXXL. Front zipper closure. Raglan sleeves with tunnelled elastic wrists. Tunnelled elastics at ankles. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

- This garment is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- single packed

Description	Size	PK	Cat. No.
with collar	M	1	9.390 066
with collar	L	1	9.390 067
with collar	XL	1	9.390 068
with collar	XXL	1	9.390 069
with collar	XXXL	1	9.390 070
with hood and slip-retardant overshoes	M	1	9.390 061
with hood and slip-retardant overshoes	L	1	9.390 062
with hood and slip-retardant overshoes	XL	1	9.390 063
with hood and slip-retardant overshoes	XXL	1	9.390 064
with hood and slip-retardant overshoes	XXXL	1	9.390 065

2



2

Protection Coverall KIMTECH PURE* A6/A8

NEW

Kimberly-Clark

Innovative coverall offering chemical splash protection combined with a breathable back panel to improve the comfort. Front panel, hood, arms and legs made with laminated SMS fabric. Back panel made of lightweight 45 gsm SMS fabric. Origami proprietary folding method to ensure not touching the outer surface of the coverall when opening the packaging. Legs telescope folded with built-in snaps and wide foot opening. Arms telescope folded with built-in thumb loops. Compatible for use in ISO 7 & 8/Grade C & D cleanrooms. Certified against the European regulation as Cat III protective garment, Type 5 (Particle protection) and Type 6 (Limited Splash Protection), antistatic treated to meet EN 1149-5 requirement and EN 14126 infective agent protection. 25 garments per case, individually packed. Available in size S to 4 XL.

- A6 with hood.**
- A8 with high neck collar.**

Size	Type	PK	Cat. No.
S	A6	25	6.272 170
M	A6	25	6.272 171
L	A6	25	6.272 172
XL	A6	25	6.272 173
2XL	A6	25	6.272 174
3XL	A6	25	6.272 175
4XL	A6	25	6.272 176
S	A8	25	6.272 177
M	A8	25	6.272 178
L	A8	25	6.272 179
2XL	A8	25	6.272 181
3XL	A8	25	6.272 182

11. Cleanroom, Cleaning and sterilisation Cleanroom/Protective clothing

1 Hood Tyvek® IsoClean®, sterile

DuPont™ Tyvek® IsoClean® hood with ties, model IC 668 B WH CS. Sterile hood available in white and in one size. Full face opening with loops and ties. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours

1



- This accessory is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- Box of 100 p., single packed

Colour	PK	Cat. No.
white	100	9.390 071

2 Disposable mask for Cleanroom, polypropylene

Disposable polypropylene mask for cleanroom. Size: 180 x 95 mm. Ear strap is made of low particle material (Urethane), Nose clip made of polyethylene. High collection efficiency because of its 3 layer structure.

- Packed in cleanroom
 - Suitable for Cleanroom class ISO 5.
- Packing: 40 x 50 pieces

NEW

ASPURE

2



Type	PK	Cat. No.
Disposable mask	2000	4.659 068

3 Sleeve guard Tyvek® IsoClean®, sterile

DuPont™ Tyvek® IsoClean® sleeve, model IC 501 B WH OS. Sterile sleeve available in white and in one size. Tunnelled elastics at wrist and upper arm. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours

3



- This accessory is not CE certified as chemical protective clothing
- Gamma-sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available

Description	PK	Cat. No.
Sleeve guard Tyvek® IsoClean®	100	9.390 072

11. Cleanroom, Cleaning and sterilisation

Cleanroom/Protective clothing

GENERAL CATALOGUE EDITION 20

1



1 Disposable Overboot Tyvek® IsoClean®

DuPont™ Tyvek® IsoClean® overboot, model IC 458 B WH OB. Overboot available in white and in sizes M and L. Fixation ties. Tunnelled elastics at ankles and gripper slip-retardant full sole. Tyvek® garments and accessories are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing, electronics industries and as well in industrial applications. *DuPont de Nemours*

- This accessory is not CE certified as chemical protective clothing
- Not clean laundered, not sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Box of 100 p.

Description	Colour	PK	Cat. No.
M	white	100	9.390 076
L	white	100	9.390 077

2



2 Disposable Overshoes Tyvek® IsoClean®

DuPont™ Tyvek® IsoClean® overshoe model, IC 451 S WH OB. Overshoe available in white and in sizes M and L. Fixation ties. Elastics at ankles and gripper slip-retardant full sole. Tyvek® garments and accessories are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. *DuPont de Nemours*

Garments and accessories made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in industrial applications.

- This accessory is not CE certified as chemical protective clothing
- Not clean laundered, not sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Box of 100 p.

Description	Colour	PK	Cat. No.
M	white	100	9.390 078
L	white	100	9.390 079

3



3 Disposable Overboot Tyvek® IsoClean®, sterile

DuPont™ Tyvek® IsoClean® overboot model, IC 458 B WH CS. Sterile overboot in white. Fixation ties. Tunnelled elastics at ankles and gripper slip-retardant full sole. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. *DuPont de Nemours*

Garments and accessories made of Tyvek® IsoClean® are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

- This accessory is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- Box of 100 x 2 p., single packed per pair

Description	Colour	PK	Cat. No.
S	white	200	9.390 073
M	white	200	9.390 074
XL	white	100	9.390 075

11. Cleanroom, Cleaning and sterilisation Cleanroom/Documentation and adhesive tapes

cleanroom marker, edding 8011

NEW
Edding

For permanent marking of special cleanroom and laminated papers in dust-free environments. Smudge-proof and waterproof.

- easy to use
- Stroke width: Approx. 0.6 mm
- Nib: Bullet nib

Colour	PK	Cat. No.
black	10	6.284 876
red	10	6.286 141 1
blue	10	6.286 142 2



3 Cleanroom paper

NEW
ASPURE

Clean paper available in white and blue.

- Suitable for Cleanroom class ISO 5
- Surface resistance: <math><10^{11}</math> Ω
- 72 g/m²
- Packed in Cleanroom

Size	Colour	PK	Cat. No.
A4	blue	2500	4.659 102
A4	white	2500	4.659 103
A3	white	1250	4.659 104



4 Cleanroom notebook

NEW
ASPURE

Notebook suitable for use in Cleanrooms. 64 pages of white paper, horizontally lined.

- Surface resistance: <math><10^{11}</math> Ω
- 72 g/m²
- Packed in Cleanroom

Type	PK	Cat. No.
Cleanroom notebook	10	4.659 105



5 Adhesive tape

NEW
ASPURE

Adhesive PVC-tape with water-soluble adhesive. Available in different widths and colors.

Size	Colour	Rollers	PK	Cat. No.
12 mm x 33 m	red	10	10	4.659 106
12 mm x 33 m	blue	10	10	4.659 107
12 mm x 33 m	yellow	10	10	4.659 108
12 mm x 33 m	green	10	10	4.659 109
12 mm x 33 m	white	10	10	4.659 110
25 mm x 33 m	red	10	10	4.659 111
25 mm x 33 m	blue	10	10	4.659 112
25 mm x 33 m	yellow	10	10	4.659 113
25 mm x 33 m	green	10	10	4.659 114
25 mm x 33 m	white	10	10	4.659 115
25 mm x 33 m	black/yellow	10	10	4.659 116
50 mm x 33 m	red	5	5	4.659 117
50 mm x 33 m	blue	5	5	4.659 118
50 mm x 33 m	yellow	5	5	4.659 119
50 mm x 33 m	green	5	5	4.659 120
50 mm x 33 m	white	5	5	4.659 121
50 mm x 33 m	black/yellow	5	5	4.659 122

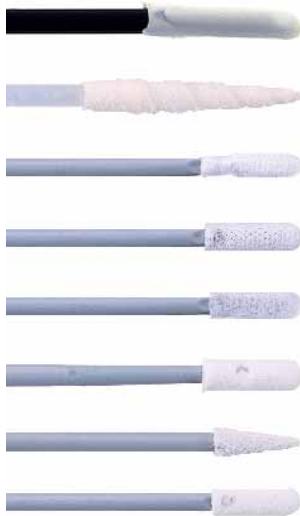


11. Cleanroom, Cleaning and sterilisation

Cleanroom/Cleaning

GENERAL CATALOGUE EDITION 20

1



1 Precision-Swabs

Precision-swabs are engineered for use in a variety of environments and applications. They are ideal for use with cleaner degreasers, head cleaners, flux removers and other solvents for fast, precision cleaning.

Ideal-tek

Wrapped foam swabs

- Durable wrapped foam swabs designed for precise applications.
- Good particle entrapment and work well as solvent applicators
- Small tips allow use in very tight tolerance areas
- Wrapped foam delivers superior abrasion resistance for removal of tough contaminants
- Pointed end works especially well as a pick

Sealed polyester swabs

- Very clean and durable all-purpose swabs
- Featuring either knit or nonwoven fabric heads, these swabs are acid and solvent resistant
- Sealed edges build in high strength with no loose fibers or particulates
- Ideal for tough scrubbing around raised shapes
- Cleanroom process gives the lowest ionic, non-volatile residue and particle contaminants.

Sealed foam swabs

- Economical general purpose swabs
- Best solvent retention
- Excellent particle entrapment
- The open cell structure gives the best solvent holding ability of any style of swab
- Free of adhesives or binders that could contaminate your process
- Fiberless construction does not generate particles.
- Suitable for ISO Class 4 Cleanrooms and higher

Length mm	Head size	Head	Material Head	Material shaft	PK	Cat. No.
150	4,7 x 5,4	rounded	Polyester/Nylon	PP	125	6.655 171
70	3,7 x 3,7	wrapped, pointed	PU-foam	Nylon	125	6.266 882
70	2,4 x 3,0	rounded	Polyester	PP	125	6.266 884
70	1,6 x 3,0	rounded	Polyester	PP	125	6.266 885
70	1,0 x 3,0	rounded	Polyester	PP	125	6.266 886
70	3,3 x 3,5	rounded	PU-foam	PP	125	6.266 887
80	2,7 x 3,3	pointed	PU-foam	PP	125	6.266 888
68	2,5 x 3,0	rounded	PU-foam	PP	125	6.266 889

2



2 Sticky Swabs

NEW

Sticky Swabs - ESD safe cleaning stems:

Dustfree sticky swabs are specially used and designed for a high degree dust-free environment (class10-100). Anti-static treatment can safely dissipate electrostatic charge. Sticky swabs are applicable for manufacturing and assembling static sensitive products.

Property: ESD safe, good absorption, soft and good tenacity, excellent agility, non-volatile, environment-friendly, no thrill odor

Ideal-tek

Material:

Tip: PVAC (Polyvinyl acetate), Ethyl acetate - Isopentyl acetate

Handle: PVC

Description	PK	Cat. No.
1 mm Ø	25	6.272 061
2 mm Ø	25	6.272 062
3 mm Ø	25	6.272 063
Kit, box of 75 swabs mixed (25 x 1mm, 25 x 2 mm, 25 x 3 mm)	1	6.272 064

3



3 Cleanroom wipes, polyester

NEW

Cleanroom wipes made of 100 % polyester, 229 x 229 mm, lasercut. Particle number and evaporation residues are kept to a minimum. The formation of dust and lint from the cutting surface are kept to a minimum due to the use of laser cutting technique. The use of polyester long fibers prevents the generation of lint. Suitable for cleanroom class ISO 5.

ASPURE

Type	PK	Cat. No.
Cleanroom wipes	150	4.659 070

1140

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11. Cleanroom, Cleaning and sterilisation Cleanroom/Cleaning

1	Cleanroom wipes, polyester/nylon	NEW
Cleanroom wipes made of 80 % polyester and 20 % nylon, 229 x 229 mm, heat cut, thickness: 410±30 µm, Water Absorbency: 412.32 g/m ² Weight: 210±10 g/m ² . Used split fiber results in excellent wiping effects. Suitable for cleanroom class ISO 5.		
<i>ASPURE</i>		
Type	PK	Cat. No.
Cleanroom wipes	100	4.659 071



2	Cleanroom wipes, polyester/nylon	NEW
Cleanroom wipes made of 87 % polyester and 13 % nylon. 229 x 229 mm, lasercut, washed with pure water. Excellent dust suppression and wiping efficiency due to split fiber. Suitable for Cleanroom class ISO 5.		
<i>ASPURE</i>		
Type	PK	Cat. No.
Cleanroom wipes	150	4.659 072



3	Cleanroom wipes, polyester/rayon	NEW
Cleanroom wipes made of nonwoven fabric with 30 % polyester and 70 % rayon, 250 x 250 mm, quattro folded. Suitable for Cleanroom class ISO 6.		
<i>ASPURE</i>		
Type	PK	Cat. No.
Cleanroom wipes	3000	4.659 073



4	Cleanroom tissues Sontara® MicroPure			
Sontara® MicroPure nonwoven styles (woodpulp/polyester) are engineered for cleanroom use and combine absorbency of a natural fibre with the cleanliness and strength of a synthetic fibre in the same fabric. No binders or chemical treatments are used to manufacture them. The high cleanliness and purity are ensured by low extractable level and ion content as well as extremely low particle generation by the material itself. The fabric styles offer high particle and liquid absorbency due to their cellulose content.				
Type	Dimensions	Cleanroom Class	PK	Cat. No.
	mm			
Sontara® MicroPure 100	305 x 305	level of cleanliness 100, ISO 5 + 6	150	9.390 185
Sontara® MicroPure 100	224 x 224	level of cleanliness 100, ISO 5 + 6	300	9.390 186
Sontara® MicroPure AP	305 x 305	level of cleanliness 1000, ISO 6 - 9	150	9.390 187
Sontara® MicroPure AP	224 x 224	level of cleanliness 1000, ISO 6 - 9	300	9.390 188
Sontara® MicroPure SV	305 x 305	level of cleanliness 1000 - 10.000, ISO 7 - 9	250	9.390 189
Sontara® MicroPure SV	224 x 224	level of cleanliness 1000 - 10.000, ISO 7 - 9	500	9.390 190



➔ Other articles for use in Cleanrooms on request.

11. Cleanroom, Cleaning and sterilisation

Cleanroom/Facility

GENERAL CATALOGUE EDITION 20



1 2 Cleanroom mats Sticky Mat

NEW

Ergomat A/S

The Sticky Mat provides a fast, convenient, reliable way to clean shoe soles or other items before entering a clean and sanitary area. Sticky Mats significantly reduce traffic-borne contaminants.

Each Sticky Mat consists of a stack of tear-off adhesive polyethylene sheets, effectively capturing dirt and dust from foot-traffic and equipment wheels before they enter controlled environments. A clear release sheet protects the top sheet of the sticky mat until it is ready to use. The corner tabs are consecutively numbered to show the number of remaining sheets, thereby helping you to keep track of the number of sheets remaining and preventing multiple sheets being removed at once.

Ergomat White Sticky Mats are produced in an 46 x 114 cm sheet, sold in pads of 30 sheets, with 10 pads per box (300 sheets total.)



Description	Colour	PK	Cat. No.
Frame for Cleanroom mats Sticky Mat	grey	1	6.272 245
Pack of 10 mats of 30 sheets	white	10	6.272 241
Pack of 10 mats of 30 sheets	blue	10	6.272 242
Set of 10 mats of 30 sheets + 1 frame	white	1	6.272 243
Set of 10 mats of 30 sheets + 1 frame	blue	1	6.272 244



3 Fine dust adhesive mat Nomad™ 4300

3M Deutschland

Ideal for areas with increased demand for air purity . The adhesive layer on the Nomad™ mat collects when crossing all dust particles from the boots and binds them so that they cannot be spread. It does not have to be cleaned, if necessary the used adhesive layer is removed and a new layer is available. The silicone-free and residue-free mat can easily be fixed on the floor.

- Consists of multiple, adhesive coated, clear polyethylene layers, which are attached on a vinyl backing
- For use in the entrance to sterile rooms (Cleanroom conditions), or requirements of highest hygiene
- 40 layers, numbered
- Removable disposable mat
- Easy to install
- Can be walked and driven on without any problems
- Very good removal and retention of dirt particles

Type	Colour	Dimensions mm	PK	Cat. No.
ADHWS45	white	450 x 1150	6	7.634 641
ADHWS60	white	600 x 1150	6	6.267 066
ADHBU60	blue	600 x 1150	6	6.267 065
ADHWS90	white	900 x 1150	6	6.267 903



11. Cleanroom, Cleaning and sterilisation

Cleanroom/Facility

Lab Chair Labsit

NEW
Bimos



Labsit is the new chair for all kinds of laboratories. Its intelligent Flex function offers comfort and laboratory ergonomics with minimal adjustments required. Labsit has all the properties required for laboratory work and, at the same time, it is light and universally applicable. Labsit is therefore a laboratory specialist and all-rounder all in one.

- Minimal joints: Hygienic design for easy cleaning and disinfection.
- Resistant to disinfectants and chemicals: Resistant to all of the usual disinfectants and chemicals.
- Seat upholstery made of artificial leather (soft and comfortable, washable and antibacterial) or soft-touch PU foam (extremely robust, washable and antibacterial) in black.
- Suitable for cleanrooms: Certified for the use in cleanrooms category 3 in accordance with ISO 14644-1.
- Adheres to biosafety level BSL1, BSL2 and BSL3 of the Directive for Biological Agents, GMP-conform.
- The backrest made of plastic with its 3D-Flex function automatically adapts to the movements of the user and therefore follows the upper body when leaning back or turning sideways.
- The Flex function on the front edge of the seat supports the forward-angled working which is typical for laboratory work.
- Its low weight and integrated handle provide maximum mobility and easy handling in the laboratory.
- Seat height adjustment by gas spring.
- Solid polished aluminium star base, flat design.
- The chrome-plated foot ring for the high chairs provides support through the wide tread area and can be easily and quickly adjusted in height.
- With certificate "Tested Safety" (GS mark).
- 10 years warranty, Made in Germany.

Accessories: Armrests (pair). Lab-Clip: The intelligent Lab-Clip enables Labsit to be easily, individually and quickly labelled, this creates order. Can be added or removed any time.

Type	Material	Description	Seat height adjustment mm	Colour	PK	Cat. No.
Lab Chair	Artificial Leather	Castors	450-650	Blue	1	6.287 729 ¹
Lab Chair	Artificial Leather	Castors	450-650	Anthracite	1	6.287 730
Lab Chair	Artificial Leather	Castors	450-650	Orange	1	6.287 731
Lab Chair	PU Foam	Castors	450-650	Blue	1	6.287 732
Lab Chair	PU Foam	Castors	450-650	Anthracite	1	6.287 733
Lab Chair	PU Foam	Castors	450-650	Orange	1	6.287 734
Lab Chair	Artificial Leather	Glides, Foot Ring	520-770	Blue	1	6.287 735
Lab Chair	Artificial Leather	Glides, Foot Ring	520-770	Anthracite	1	6.287 736
Lab Chair	Artificial Leather	Glides, Foot Ring	520-770	Orange	1	6.287 737 ²
Lab Chair	PU Foam	Glides, Foot Ring	520-770	Blue	1	6.287 738
Lab Chair	PU Foam	Glides, Foot Ring	520-770	Anthracite	1	6.287 739
Lab Chair	PU Foam	Glides, Foot Ring	520-770	Orange	1	6.287 740
Lab Chair	Artificial Leather	Stop and Go Gastors, Foot Ring	560-810	Blue	1	6.287 741
Lab Chair	Artificial Leather	Stop and Go Gastors, Foot Ring	560-810	Anthracite	1	6.287 742
Lab Chair	Artificial Leather	Stop and Go Gastors, Foot Ring	560-810	Orange	1	6.287 743
Lab Chair	PU Foam	Stop and Go Gastors, Foot Ring	560-810	Blue	1	6.287 744
Lab Chair	PU Foam	Stop and Go Gastors, Foot Ring	560-810	Anthracite	1	6.287 745 ³
Lab Chair	PU Foam	Stop and Go Gastors, Foot Ring	560-810	Orange	1	6.287 746
Lab Stool	PU Foam	Gastors	450-650	-	1	6.287 747 ⁴
Multifunctional Armrests					1	6.287 748
Clip					1	6.287 749 ⁵



6.287 729

6.287 737

6.287 745

6.287 747

6.287 749

➔ Other articles for use in Cleanrooms on request.