Disposable garments & Personal Protective Equipment







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Disposable and reusable protective goggles can be found in Part 1, Chapter 1.4!



Interesting facts about disposable garments



Definition of disposable cleanroom garments

Disposable garments are often used as supplements to reusable cleanroom garments. Both serve as product protection and as personal protective equipment.

Attention should be paid that disposable garments do not become additional particle sources. Meaningful application, e.g. with reusable garments, can achieve a contamination reduction.

A comparative study of disposable garments vs. reusable garments showed very interesting differences on the subject of "self-contamination" (see Chapter 2.6).

Depending on the requirements, different designs and properties have to be considered, for example antistatic behaviour, tear resistance, protection against toxic substances etc.

Due to application-specific requirements in the cleanroom world, the topic of "personal protection/personal protective equipment in the cleanroom" has become one of the focal points, in addition to product protection. Both aspects should complement each other in a meaningful way.

Due to the lack of unified standards or norms which could be used to designate a disposable article e.g. as Class ISO 5 compliant, the following Internet pages should help you to find the right item for your individual requirements.

We will be happy to advise you on your selection and will also provide you with samples for testing purposes.

Version 02/2023 · We are not liable for any printing mistakes!

Disposable garments Head protection Body protection ▶ non-woven hoods/ coveralls / overalls bouffant caps lab coats ▶ full protective hoods jacket / trousers combination aprons / sleeve protectors gloves **Face protection Feet protection** protective goggles overboots ▶ face masks overshoes beard cover masks anti-slip versions

antistatic versions

socks

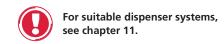
Disposables for the head and face area



Acrylic dispenser system with 4 compartments Art. No. 28090

Necessary basic requirements for cleanroom compatible disposable garments depending on the respective application:

- particle retention capacity and barrier properties
- sterility on demand
- antistatic finish with lowest possible particle emission
- cleanliness at delivery and cleanroom suitable packaging (polybag)
- article is latex-free
- current documentation, model specifications, technical data sheet for the used materials, sterility/irradiation certificate
- permeation measurements in the case of natural and synthetic substances
- ▶ (EU) PPE Regulation, if required
- for safety goggles:
 - coatings (anti-fog and/or scratch resistance)
 - tested number of autoclave cycles
 - no visual impairment



Disposable hoods and caps



Full protective hood with shoulder cover Art. No. 4055001



MediCap AstroEco (astro hood) Art. No. 4053100



Disposable non-woven bouffant cap Art. No. 40500

Description	sterile	Size	Colour	PU	Art. No.		
Disposable bouffant cap non-woven fabric, stacked flat-packed, (type bouffant cap)	no	S (approx. 46 cm/18") M (approx. 54 cm/21") L (approx. 60 cm/24")	0 • •	1,000 pieces 10 PE bags of 100 pieces	40500		
Full protective hood with shoulder cover non-woven fabric, antistatic treated	no	universal	0	1,000 pieces 20 PE bags of 50 pieces	4055001		
MediCap AstroEco Astro hood, with straps, front sweatstrip	no	universal	•	1,000 pieces 10 PE bags of 100 pieces	4053100		
Full protective hood Kimtech™ A5 decontaminated, gamma irradiated	yes	universal		100 pieces individually packed in PE bag	4055002S		
Full protective hood with integrated face mask Kimtech™ A5 decontaminated, gamma irradiated	yes	universal	0	75 pieces individually packed in PE bag	4055202S		
Disposable bouffant cap Tyvek® IsoClean® (IC729SWHMS), processed under cleanroom conditions, gamma sterilised	yes	universal	0	250 pieces individually packed in PE bag	40500201		
Full protective hood Tyvek® IsoClean® (IC668B Option MS), with shoulder cover, decontaminated, gamma sterilised	yes	universal		100 pieces individually packed in PE bag	40520-S		
○ white							

Disposable face masks



CONCLUSION

The fit influences the wearing comfort as well as its effectiveness.

Therefore, coordinate your face mask with the rest of your garment concept, especially with the hood!

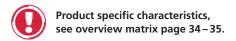
Disposable face mask to tie

Overview of different face mask materials

Disposable face masks, so called medical face masks, are often used to protect the product or process, but also to protect the worker (PPE). In addition to the most important criterion, filtration efficiency (BFE = Bacterial Filtration Efficiency and PFE = Particle Filtration Efficiency), the wearing comfort properties, such as breathing resistance (= Delta), fit and skin compatibility, also play very important roles.

The protective effect respectively the filtration efficiency depends largely on the choice of materials. Face masks made of materials containing paper/cellulose are not suitable for use in cleanrooms, as the risk of contamination is too high due to the low abrasion resistance and increased inherent particle emission. Experience has shown that synthetic materials such as non-woven fabrics made of polypropylene, polyethylene and polyester filaments are most suitable.

When defining a disposable face mask, its width is also a criterion that should not be neglected. It should cover the entire width of the face and neck, so that skin and beard hairs are completely covered.







Disposable face mask with ear loops, rear fastening clip Art. No. 42310



Disposable face mask with elastic headbands Art. No. 41630



Disposable face mask, extra wide with elastic ear loops Art. No. 45420

Description	sterile	Size	Colour	PU	Art. No.
Disposable beard cover extra large version, approx. 230 x 160 mm	no	universal	0	1,000 pieces 10 PE bags of 100 pieces	40450
Disposable face mask with ties, packed in stacks	no	18 cm	0	1,000 pieces 20 bags of 50 pieces	41600-bulk
Disposable face mask with elastic ear loops, individually packed	no	18 cm	0	1,000 pieces 20 bags of 50 pieces	41610
Disposable face mask with elastic ear loops, packed in stacks	no	18 cm	0	1,000 pieces 20 bags of 50 pieces	41610-bulk
Disposable face mask with elastic headbands, packed in stacks	no	18 cm	0	1,000 pieces 20 bags of 50 pieces	41630
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask with elastic ear loops, packed in stacks	no	18 cm	0	500 pieces 10 bags of 50 pieces	43410
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask with soft ties, stacked	no	18 cm		500 pieces 10 bags of 50 pieces	43420
Disposable face mask with ties, packed in stacks	no	21 cm	0	1,000 pieces 20 bags of 50 pieces	42600-bulk
Disposable face mask with elastic ear loops, individually packed	no	21 cm		1,000 pieces 20 bags of 50 pieces	42610
Disposable face mask with elastic ear loops, packed in stacks	no	21 cm	0	1,000 pieces 20 bags of 50 pieces	42310

Kimtech™ M3: 3-layer non-woven made of PE/filter material PP (non-sterile version)

Disposable face mask



Disposable face mask with elastic headbands Art. No. 42630-23



Kimtech™ M7 disposable face veil with press studs Art. No. 43520

Description	sterile	Size	Colour	PU	Art. No.
Disposable face mask with elastic headbands, packed in stacks	no	23 cm	0	1,000 pieces 20 bags of 50 pieces	42630-23
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask (pleated design) with elastic ear loops, packed in stacks	no	23 cm		500 pieces 10 bags of 50 pieces	43415
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask (pleated design) with soft ties, stacked packed	no	23 cm		500 pieces 10 bags of 50 pieces	43425
Disposable face mask M-PMEC143 with elastic ear loops, stacked packed	no	23 cm		1,000 pieces 20 bags of 50 pieces	45420
Disposable face mask M-PMEC143-25 shortened elastic ear loops, aluminium nosepiece, stacked packed	no	23 cm		1,000 pieces 20 bags of 50 pieces	45425
Disposable face mask Kimtech™ M3 Certified Pouch-Style Face Mask duckbill-shape, gap guard, headbands, packed in stacks	no	25 cm		300 pieces 6 bags of 50 pieces	43910
Disposable face veil Kimtech™ M7 two press studs each for adjustment, packed in stacks	no	33 x 38 cm (W x L)	1	150 pieces 3 bags of 50 pieces	43520
Disposable face veil Kimtech™ M7 with elastic knitted headband, packed in stacks	no	33 x 38 cm (W x L)	()	150 pieces 3 bags of 50 pieces	43530

► HINT

suitable!

Face masks type M3 as well as articles 45420 and 45425 offer a high degree of comfort and are particularly cleanroom

Disposable and reusable protective goggles can be found

in Part 1, Chapter 1.4!







Kimtech™ M7 disposable face veil with knitted headband Art. No. 43530



Disposable face mask pouch shaped (duckbill) with knitted headbands Art. No. 44910 / Art. No. 43910

Description	sterile	Size	Colour	PU	Art. No.
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask (pleated design) with elastic ear loops, individually packed	yes	18 cm		200 pieces 10 bags of 20 pieces	44810
Disposable face mask Kimtech™ M3 Certified Pleat-Style Face Mask (pleated design) with soft ties, individually packed	yes	23 cm		200 pieces 10 bags of 20 pieces	44830
Disposable face mask Kimtech™ M3 duckbill-shape, gap guard, with knitted headbands, individually packed	yes	25 x 10 cm		200 pieces 10 bags of 20 pieces	44910
Disposable face mask BDBS-G pouch-style, neck guard, with knitted headbands, individually packed	yes	30,5 x 10,5 cm	0	200 pieces 10 bags of 20 pieces	44911

Kimtech™ M3: 3-layer non-woven PE/filter material PP (sterile version)

For fastening the loops of face masks to the back of the head – for a better wearing comfort

Description	sterile	Size	Colour	PU	Art. No.
Fastening clip for face masks with ear loops	no	universal	1	5,000 pieces 50 bags of 100 pieces	44455

Disposables for the body area



Overview of different materials

Disposable garments for the body is used for the protection of the employee (PPE), but also for the product and process. For the manufacturing of disposable garment, spunbond fabrics are used nearly exclusively, which are then compacted with heat and pressure.

Some examples are non-woven fabrics, so called SMS (Spun-bond-Meltblown-Spunbond) which have good breathability; fabrics with an additional applied microporous finish (high barrier affectivity against particles, but only minor resistance against mechanical influences) or Tyvek®, the patented PE-HD fabric from DuPont™. This fabric has high durability, low particle emission and very good barrier features.

Usually, disposable garments are manufactured in not controlled industrial ambient conditions. All contaminations falling and sticking on the disposable clothing during the manufacturing process are thus not removed, and will be brought therefore into the cleanroom areas. For this reason we recommend – wherever possible – to use subsequently washed (decontaminated) disposable garment.

Disposable

garments in different

qualities







FACT

Disposable garments are not usually decontaminated after the end of production.

Contamination can thus enter the controlled areas unhindered!

Necessary basic requirements for cleanroom compatible disposable garments depending on the respective application:

- particle retention capacity and barrier properties
- sterility on demand
- antistatic finish with lowest possible particle emission
- cleanliness at delivery and cleanroom suitable packaging (polybag)
- latex-free at the elastic sleeve and trouser ends
- current documentation, model specifications, technical data sheet for the used materials, sterility/irradiation certificate
- permeation measurements in the case of natural and synthetic substances
- ▶ (EU) PPE Regulation, if required

Disposable lab coats



Disposable lab coat, Tyvek® 500 with press studs in front Art. No. 40030



Disposable lab coat, Tyvek® 500 with zipper in front Art. No. 40032



The protection function can be improved with an additional apron!

Description	sterile	Size	Colour	PU	Art. No.
Disposable lab coat PP non-woven approx. 50 g/m², collar, 5 press studs in front, 2 hip pockets, elasticated cuffs	no	L – XXXL		50 pieces per carton individually packed	40060
Disposable lab coat PP non-woven approx. 40 g/m², collar, zipper in front, breast pocket outside left, elasticated cuffs	no	M – 4XL		50 pieces per carton individually packed	40061
Disposable lab coat PP non-woven approx. 40 g/m², collar, 4 vinyl press studs in front, no pockets	no	L – XXL		50 pieces per carton individually packed	40062
Disposable lab coat PP non-woven approx. 30 g/m², Eco version, collar, 4 press studs in front, no pockets, elasticated cuffs	no	L and XXL	•	100 pieces per carton individually packed	40063
Disposable lab coat Tyvek® 500 (PL30) press studs in front, 3 pockets	no	M – XXL	0	50 pieces per carton of 10 pieces per bag	40030
Disposable lab coat Tyvek® 500 (PL30NP) press studs in front, no pockets	no	M – XXL		50 pieces per carton of 10 pieces per bag	40031
Disposable lab coat Tyvek® 500 (PL309) zipper, 2 pockets, stand-up collar, antistatic	no	S – XXL	0	50 pieces per carton of 10 pieces per bag	40032
Disposable lab coat Chemsplash® microporous PP/PE laminate, collar, zipper in front, knitted cuffs, antistatic	no	S – XXXL		25 pieces per carton individually packed	40096
Disposable lab coat Tychem® 2000 C (TC 0290) shin-length, rear closure, knitted cuff with double cuff system, mandarin collar	no	S/M and L/XXL	-	25 pieces per carton individually packed	407570

Disposable overalls / coveralls

Description	sterile	Size	Colour	PU	Art. No.			
Disposable coverall PP non-woven 50 g/m², integrated hood (elastic band), elasticated sleeve/trouser leg ends/waistband, covered zipper	no	M – XXXL		50 pieces per carton individually packed	40100			
Disposable overall PP non-woven 40 g/m², without hood, elasticated sleeve/trouser leg ends/waistband, covered zipper, stand-up collar	no	M – XXL		100 pieces per carton individually packed	40105			
Disposable overall Tyvek® 500 Industry (CCF5) without hood, elasticated sleeve/trouser leg ends and waistband, covered zipper	no	S – XXXL		50 pieces per carton individually packed	40010			
Disposable coverall Tyvek® 500 Xpert (CHF5) integrated hood, elasticated sleeve/trouser leg ends and waistband, covered zipper	no	S – XXXL	\circ	50 pieces per carton individually packed	40040			
Disposable coverall Tyvek® 600 Plus (CHA5 T WH 00), integrated hood, thumb loops, elasticated sleeve/trouser leg ends and waistband, covered zipper, over-tapeted seams	no	S – XXXL	0	50 pieces per carton individually packed	40041			
Disposable coverall Tyvek® 600 Plus (CHA5 T WH 16) integrated hood, thumb loops, elasticated sleeve and waistband, covered zipper, over-tapeted seams, incorporated ankle socks	no	M – XXL	0	80 pieces per carton individually packed	40015			
Disposable coverall WeePro® microporous PE laminate on PP laminate, 65 g/m², integrated elasticated hood (three parts for more mobility), elasticated trouser leg ends, knitted cuffs, two-way-zipper with flap, antistatic	no	M – XXXL	0	50 pieces per carton individually packed	400710			
Disposable coverall Chemsplash® Pro 63 microporous PE laminate on PP laminate, 63 g/m², integrated hood with elastic band, elasticated sleeve/trouser leg ends, covered two-way-zip, antistatic	no	S – XXXL	0	25 pieces per carton individually packed	400840			
Disposable coverall Chemsplash® Xtreme SMS 50 AS, SMS fabric, integrated hood with elastic band, elasticated sleeve/trouser leg ends, covered two-way-zipper, antistatic	no	M – XXXL	•	25 pieces per carton individually packed	400841			
Disposable coverall Tychem® 2000 C (CHA5TYL 00) integrated hood with elastic band, thumb loops, elasticated sleeve/trouser leg ends and waistband, both-sided covered zipper, over-tapeted seams	no	S – XXXL		25 pieces per carton individually packed	40042			
white blue green yellow								

PP = Polypropylene PE-HD = High Density Polypropylene SMS = Spunbond-Meltblown-Spunbond fabric



Tychem® 2000 C offers a high chemical protection, because always remember: Personal protection comes before product protection!

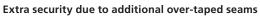
Besides Tychem®, we are of course offering the complete Tychem® F product range in our delivery programme!



Product specific characteristics, see overview matrix page 36-37.

Disposable overalls / coveralls







Description	sterile	Size	Colour	PU	Art. No.
Disposable overall Kimtech™ A5 without hood, elasticated sleeve/trouser leg ends and waistband, covered zipper, thumb loops. Decontaminated, triple packed under cleanroom conditions, gamma irradiated (≥ 25 kGy).	yes	S – 4XL		25 pieces per carton individually packed	40010S
Disposable coverall IsoClean® (IC 193) integrated hood with straps (compatible with medical masks), tunnelled elastication at wrists, thumb loop, elasticated waist at back, integrated anti-slip overboots, covered zip. Decontaminated under cleanroom conditions, individually double packed, gamma sterilised (SAL 10-6).	yes	M – XXXL	0	20 pieces per carton individually packed	40040S-CE



Sterile disposable garments, Kimtech™ A5, Art. No. 40010S, amongst others

Description	sterile	Size	Colour	PU	Art. No.
Disposable overall Tyvek® IsoClean® (IC 183) without hood, bound internal seams, covered zipper, tunnelled elastication at wrists and ankles, decontaminated	yes	M – XXXL		25 pieces per carton individually packed	40013-S
Disposable overall BioClean-D™ S-BDCCT (CleanTough™) without hood, with collar, piped seams, covered zipper	yes	XS – XXL	\circ	20 pieces per carton individually packed	400115
Disposable coverall BioClean-D™ S-BDHCT (CleanTough™) integrated hood, piped seams, covered zipper	yes	XS – XXL		20 pieces per carton individually packed	400445
Disposable coverall BioClean-D™ S-BDSH (CleanTough™) integrated hood, piped seams, covered zipper in the inner leg area	yes	XS – 4XL	0	20 pieces per carton individually packed	4004415

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges.

A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people, processes and products in controlled environments. CleanTough™ Tyvek® IsoClean®

Dress size*	Chest girth (approx.)	Body size (approx.)
XS	76 – 84 cm	158 – 164 cm
S	84 – 92 cm	164 – 170 cm
М	92 – 100 cm	170 – 176 cm
L	100 – 108 cm	176 – 182 cm
XL	108 – 116 cm	182 – 188 cm
XXL	108 – 116 cm	188 – 194 cm
XXXL	124 – 132 cm	194 – 200 cm
4XL	132 – 140 cm	200 – 206 cm



Product specific characteristics, see overview matrix page 36-37.

^{*} manufacturer's information

Disposable accessories







Art. No. 40040 (rear view)



Art. No. 40121





Art. No. 40031

Description	sterile	Size	Colour	PU	Art. No.
Disposable jacket Tyvek® 500 (PP33) with zipper and stitched on hood	no	M – XXL	0	50 pieces per carton loosely packed	40121
Disposable trousers Tyvek® 500 (PT31) no pockets, rear elastic band, trouser leg ends without elastic bands	no	M - XXL	0	50 pieces per carton loosely packed	40050
Disposable trousers PP non-woven 50 g/m², trouser leg ends without elastic bands, no pockets	no	L, XL, XXL		100 pieces per carton of 10 pieces per bag	40052
Disposable trousers PP non-woven 40 g/m², rear elastic band and elasticated leg ends, fabric with antistatic finish	no	L and XL	0	50 pieces per carton of 10 pieces per bag	40053
Disposable apron Tyvek® 500 (PA30) tie-tapes at rear, 108 cm long	no	70 × 108 cm (W × L)	0	100 pieces per carton loosely packed	40750
Disposable apron BioClean-C[™] BCDA (CleanTough [™]) to tie, 164 –176 cm long	no	S, M, L		50 pieces per carton individually packed	40751
Disposable apron with sleeves BioClean-C™ BCAS (CleanTough™) to tie, adjustable neck/waist, elasticated wristbands	no	S, M, L		40 pieces per carton individually packed	407587
Disposable apron Tyvek® 500 (PA30L0 gamma irradiated) tie-tapes at rear	yes	70 × 108 cm (W × L)	0	100 pieces per carton individually packed	40750-S
Disposable apron with sleeves BioClean-C[™] S-BCAS (CleanTough [™]) to tie, adjustable neck/waist, elasticated wristbands	yes	S, M, L		40 pieces per carton individually packed	407585





Art. No. 40320





Description	sterile	Size	Colour	PU	Art. No.
Disposable sleeve protector Tychem® 2000 C (PS3200) 50 cm long, elasticated on both sides	no	universal	-	50 pieces per carton loosely packed	40754
Disposable sleeve protector Tyvek® 500 (PS32LA) 50 cm long, elasticated on both sides	no	universal	0	50 pieces per carton loosely packed	40720
Disposable sleeve protector microporous non-woven fabric, 45 cm long, elastic band and wristband, antistatic finishing	no	universal		300 pieces per carton of 50 pieces per bag	40742
Disposable sleeve protector Tyvek® IsoClean® (501 B Option MS) 45 cm long, elastic band on both sides	yes	universal		50 pairs per carton packed in pairs	4072230
Disposable sleeve protector BioClean-C™ S-BCSC (CleanTough™) 40 cm long, elasticated PE cuffs	yes	universal		6 bags of 15 pairs (90 pairs each individually packed) per carton	407584
Disposable sleeve protector BioClean-D™ S-BDSC-L (CleanTough™) 50 cm long, elasticated on both sides	yes	universal	0	6 bags of 15 pairs (90 pairs each individually packed) per carton	40760S
Disposable sleeve protector Kimtech™ A5 SMS in PP, 45 cm long, elasticated on both sides, thumb loops, decontaminated	yes	universal	0	100 pairs per carton packed in pairs	40770S
white blue yellow					

CleanTough™ Tyvek® IsoClean®

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges.

A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people,

processes and products in controlled environments.

A Tyvek® non-woven fabric that protects against chemical particles and water-based splashes. Tyvek® 500

Tychem 2000® C Spunbonded PE-HD non-woven fabric coated with polymers that protect against concentrated inorganic chemicals.



Product specific characteristics, see overview matrix page 38-39.

Necessary basic requirements for cleanroom compatible disposable garments depending on the respective application:

- particle retention capacity and barrier properties
- sterility on demand
- antistatic finish with lowest possible particle emission
- cleanliness at delivery and cleanroom suitable packaging (polybag)
- latex-free
- current documentation, model specifications, technical data sheet for the used materials, sterility/irradiation certificate
- disinfectability, e.g. sleeve protectors
- permeation measurements in the case of natural and synthetic substances
- ▶ (EU) PPE Regulation, if required

Disposables for the foot area

Versions and colour options



▶ FACT

Disposable overshoes are generally not decontaminated after manufacturing.
Contaminations can therefore be introduced in controlled environments unhindered!

Overview of different materials

Disposable overshoes and overboots are used in different cleanliness zones as complementary components of a garment system. The overshoes, some of which are conductive and relatively strong, are often used as visitor shoes and/or as "overshoes" when crossing between individual hygiene areas. Materials such as Tyvek®, microporous finishes, SMS, CPE, polyethylene, polypropylene or non-woven fabrics with carbon yarns are used.

Description	sterile	Size	Colour	PU	Art. No.
Disposable overshoes CPE elasticated ankle-high version	no	universal 41 cm long	0 • •	1,000 pieces per carton	40300
Disposable overshoes non-woven PP with PE coating, elasticated ankle-high version	no	universal 38 cm long	0	200 pieces per carton	40350
Disposable overshoes non-woven PP elasticated ankle-high version	no	universal 38 cm long		240 pieces per carton	40351
Disposable overshoes non-woven PP with PE coating, extra thick PVC sole, elasticated ankle-high version	no	universal 36 cm long	0	200 pieces per carton	40362
Disposable overshoes spunbonded non- woven PP, CPE sole, elasticated ankle-high version	no	universal 40 cm long	0 • •	1,000 pieces per carton	40381
Disposable overshoes non-woven PP conductive strip, elasticated ankles, higher version	no	universal 44 cm long		500 pieces per carton	40385
Disposable overshoes non-woven PP conductive strip, elasticated ankles, higher version	no	universal 39 cm long	•	500 pieces per carton	40386
Disposable overshoes non-woven PP fabric elasticated ankle-high version	no	universal 41 cm long		1,000 pieces per carton	40387



Disposable overshoes PP non-woven, with conductive strip, Art. No. 40385

CPE = chlorinated polyethylene

Disposable overshoes extra strong CPE, blue Art. No. 40390



Disposable overshoes non-woven PP fabric, white / blue Art. No. 40381



Disposable overshoes PP with conductive strip, light blue Art. No. 40385



Disposable overshoes extra strong CPE, slightly adhesive, light blue Art. No. 40399



Disposable overshoes PP with PE coating, white Art. No. 40350





Disposable overboots, BioClean-D™ Art. No. 40322S

Description	sterile	Size	Colour	PU	Art. No.				
Disposable overshoes extra strong CPE elasticated ankle-high version	no	universal 41 cm long	0	500 pieces per carton	40390				
Disposable overshoes extra strong CPE elasticated ankle-high version, slightly adhesive	no	universal 41 cm long	0	500 pieces per carton	40399				
Disposable overboots Tyvek® 500 (POB0) high, elastic band, straps to fix, PE sole	no	universal 36 cm long	0	200 pieces per carton	40320				
Disposable overboots Tyvek® 500 (POBA) high, elastic band, straps to fix, anti-slip	no	universal 36 cm long	0	200 pieces per carton	40323				
Disposable overboots BioClean™ BDOB (CleanTough™) high, tie-tapes, anti-slip PU sole	no	universal 40 cm long		150 pieces per carton	403250				
Disposable overboots 3M™ 450OVER microporous PE laminate, anti-slip sole, antistatic	no	universal 43 cm long	0	100 Paar per carton	40376				
Disposable overboots extra strong CPE high, elastic band, material with pressed-in pattern	no	universal 40 cm long	0	500 pieces per carton	40395				
Disposable overboots BioClean-D™ S-BDOB (CleanTough™), elastic band, tie-tapes, anti-slip PU sole, PP/PE antistatic coating, decontaminated	yes	universal 40 cm long		75 Paar per carton	40322S				
Disposable overboots Tyvek® IsoClean® (IC 458 B Option MS) elastic band, ankle straps, anti-slip sole, decontaminated	yes	S, M, L, XL	0	100 pieces per carton	40323-S				
Disposable overboots Kimtech™ A5 elastic band, straps to tie, vinyl sole, decontaminated	yes	S and universal	0	100 Paar per carton	4032400S				
white grey light blue blue									

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges. Tyvek® IsoClean® A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people, processes and products in controlled environments.

Tyvek® 500

A Tyvek® non-woven fabric that protects against chemical particles and water-based splashes.

Necessary basic requirements for cleanroom compatible disposable overshoes / overboots depending on the respective application:

- particle retention capacity and barrier properties
- sterility on demand
- antistatic finish with lowest possible particle emission
- tensile strength
- anti-slip properties
- cleanliness at delivery and cleanroom suitable packaging (polybag)
- > current documentation, model specifications, technical data sheet for the used materials, sterility/irradiation certificate
- ▶ (EU) PPE Regulation, if required



Product specific characteristics, see overview matrix page 38-39.



Comparison of disposable / reusable garments



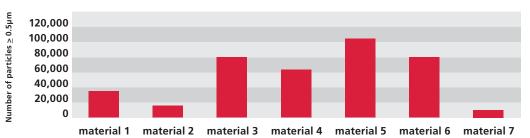




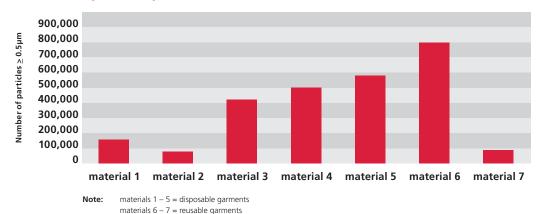
A standard solution on the test bench

In various publications on the subject of "Disposable garments for cleanroom use", the impression has been – and still is – conveyed that there are many technical arguments in favour of using disposable garments from well-known manufacturers without restrictions even in cleanroom class ISO 5 (in accordance with ISO 14644-1). However, anyone who examines this statement, application in classes ISO 5 or 6 more closely, will quickly come across an essential detail that calls into question the unconditional use of disposable garments. In most cases, disposable garments are not decontaminated after production. All impurities from the manufacturing process thus enter the respective cleanrooms one-to-one without hindrance. We took this as an opportunity to check in our own test cleanroom "Body-Box" to what extent disposable garments are generally suitable for cleanroom use, especially with regard to particle emission.

Results of measurement (means) ≥ 0.5µm of various disposable and reusable garment systems while standing in the Body-Box with a total measurement time of 10 min.



Results of measurement (means) $\geq 0.5 \mu m$ of various disposable and reusable garment systems while walking in the Body-Box with a total measurement time of 10 min.



Certainly there are special areas of application where the use of cleanroom-suitable disposable garments are still useful. It is important, however, that in critical areas (starting with class ISO 6 or better, respectively ISO 4) care should be taken to ensure that disposable garments have been appropriately decontaminated before packing. Only pre-cleaned disposable garments (material 2) are qualitatively, in terms of particle emission, comparable to decontaminated reusable garments (material 7).

There are considerable qualitative differences between the various disposable garment systems on the market with regard to their particle emission, which a user should definitely examine more closely and adjust to his requirements before using them in his cleanroom.

We would be pleased to advise you personally on this topic!

Overview matrix



Disposable and reusable protective goggles can be found in Part 1, Chapter 1.4!

very good good satisfactory adequate



Chap.	Art. No.	Description	Breathable	Material
2.2	40500	Bouffant cap	****	PP
2.2	40500201	Bouffant cap, Tyvek® IsoClean® (IC729SWHMS)	**	PE-HD
2.2	4055001	Full protective hood with shoulder cover	****	PP
2.2	4053100	MediCap AstroEco (astro hood)	***	PP
2.2	4055002S	Full protective hood Kimtech™ A5	**	PP
2.2	4055202S	Full protective hood Kimtech™ A5, with integrated face mask	**	PP
2.2	40520-S	Full protective hood Tyvek® IsoClean® (IC668B Option MS)	**	PE-HD
2.2	40450	Beard cover	****	PP

	Chap.	Art. No.	Description	Face mask width	Bacterial filtration efficiency
	2.2	41600-bulk	Face mask with ties, packed in stacks	18 cm	>98%
	2.2	41610	Face mask with elastic ear loops	18 cm	>98%
	2.2	41610-bulk	Face mask with elastic ear loops, stacked packed	18 cm	>98%
	2.2	41630	Face mask with elastic headbands, stacked packed	18 cm	>98%
	2.2	43410	Face mask Kimtech™ M3, with elastic ear loops, stacked packed	18 cm	≥99% bei 0.3 µm
	2.2	43420	Face mask Kimtech™ M3, with flat PES headbands to tie, stacked packed	18 cm	≥99% bei 0.3 µm
	2.2	44810	Face mask Kimtech™ M3, with elastic ear loops	18 cm	≥89% bei 0.3 µm
	2.2	42600-bulk	Face mask with ties, packed in stacks	21 cm	>98% bei 3.0 µm
ш	2.2	42610	Face mask with elastic ear loops	21 cm	>98% bei 3.0 μm
ACI	2.2	42310	Face mask with elastic ear loops, stacked packed	21 cm	99.1% bei 3.0 μm
HEAD/FACE	2.2	42630-23	Face mask with elastic headbands, stacked packed	23 cm	>98% bei 3.0 μm
EA	2.2	43415	Face mask Kimtech™ M3, with elastic ear loops, stacked packed	23 cm	≥89% bei 0.3 µm
_	2.2	43425	Face mask Kimtech™ M3, with soft ties, stacked packed	23 cm	≥89% bei 0.3 µm
	2.2	45420	Face mask M-PMEC143, with elastic ear loops, stacked packed	23 cm	99.6% bei 3.0 μm
	2.2	45425	Face mask M-PMEC143-25, with shortened elastic ear loops, alu nosepiece, stacked	23 cm	99.4% bei 3.0 μm
	2.2	43910	Face mask Kimtech™ M3, duckbill-shape, gap guard, headbands, stacked packed	25 cm	≥98% bei 0.3 µm
	2.2	44830	Face mask Kimtech™ M3, pleated design, soft ties	23 cm	≥89% bei 0.3 µm
	2.2	44910	Face mask Kimtech™ M3, duckbill-shape, gap guard, knitted headbands	25 cm	96.8% bei 0.3 μm
	2.2	44911	Face mask BDBS-G, pouch-style, neck guard, knitted headbands	30.5 cm	97.9% bei 3.0 μm
	2.2	43520	Face veil Kimtech™ M7, 2 press studs each for adjustment, stacked packed	38 cm	-
	2.2	43530	Face veil Kimtech™ M7, with elastic knitted headband, stacked packed	38 cm	-

					Version					
Liquid protection	Chemical protection	PPF Cat / Tv	pe of protection	Packaging	non-sterile	sterile	latex-free	electrostatic treated	decontaminated and packed*¹	
-	-	Cat. I	pe of protection	double PE	√	01	/	-	0.0	
**	**		Time DD [6]	double PE		1	/		1	1
**	* *	Cat. III	Type PB [6]	double PE		√	-		•	1
-	-	Cat. I		single PE						
-	-	Cat. I		single PE	\					
*	*	Cat. III	Type PB [6]	triple PE		/	/		1	
*	*	Cat. III	Type PB [6]	triple PE		1	/		1	
**	**	Cat. III	Type PB [6]	double PE		/	/		1	
-	-	Cat. I		double PE	/		/			
										1

				erile		ree	ayer	*	
Particulate filtration	Pressure difference			non-sterile	sterile	latex-free	three layer	packed*1	
efficiency	delta	PU	Packaging		72				
>98% bei 0.1 µm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	\			/		
>98% bei 0.1 µm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	single, double PE						
>98% bei 0.1 μm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE						
>98% bei 0.1 μm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE					/	
≥99% bei 0.1 µm	5 mm H ₂ O/cm ²	500 (10 bags of 50 pieces)	double PE	1		/	/	1	
≥99% bei 0.1 µm	5 mm H ₂ O/cm ²	500 (10 bags of 50 pieces)	double PE	✓		/	/	/	
≥84% bei 0.1 µm	≤2.5 mm H ₂ O/cm ²	200 (10 bags of 20 pieces)	single, triple PE		/	1	1	/	
>98% bei 0.1 µm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	1		/	/	/	
>98% bei 0.1 μm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	single, double PE	1		1	1	/	
99.2% bei 0.1 μm	3.1 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	√		/	/	✓	
>98% bei 0.1 μm	<4 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	1		1	1	/	
≥84% bei 0.1 µm	<2.5 mm H ₂ O/cm ²	500 (10 bags of 50 pieces)	double PE	✓		/	/	√	
≥84% bei 0.1 µm	<2.5 mm H ₂ O/cm ²	500 (10 bags of 50 pieces)	double PE	✓		/	/	1	
99.4% bei 0.1 μm	3.54 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	✓		/	/	/	
99.6% bei 0.1 μm	3.54 mm H ₂ O/cm ²	1,000 (20 bags of 50 pieces)	double PE	1		1	1	/	
≥99% bei 0.1 µm	\leq 2.5 mm H ₂ O/cm ²	300 (6 bags of 50 pieces)	double PE	✓		1	/	/	
≥84% bei 0.1 µm	≤2.5 mm H ₂ O/cm ²	200 (10 bags of 20 pieces)	single, triple PE		/	/	/	/	
91.4% bei 0.1 μm	2.5 mm H ₂ O/cm ²	200 (10 bags of 20 pieces)	single, triple PE		/	/	/	/	
98.2% bei 0.3 μm	3.5 mm H ₂ O/cm ²	200 (10 bags of 20 pieces)	single, triple PE		1	1	/	/	
13% bei 0.5 μm	0.1 mm H ₂ O/cm ²	150 (3 bags of 50 pieces)	double PE	1		1		/	
13% bei 0.5 μm	0.1 mm H ₂ O/cm ²	150 (3 bags of 50 pieces)	double PE	√					

 $^{^{\}star 1}$ under controlled conditions



Overview matrix

very good good satisfactory adequate



Chap.	Art. No.	Description	Breathable	Material
2.3	40060	Lab coat, PP non-woven, 50 g/m ² , 5 press studs in front	***	PP
2.3	40061	Lab coat, PP non-woven, 40 g/m², zipper in front	***	PP
2.3	40062	Lab coat, PP non-woven, 40 g/m², 4 press studs in front, no pockets	***	PP
2.3	40063	Lab coat, PP non-woven, 30 g/m², 4 press studs in front, no pockets	***	PP
2.3	40030	Lab coat Tyvek® 500 (PL30), 5 press studs in front, 3 pockets	**	PE-HD
2.3	40031	Lab coat Tyvek® 500 (PL30NP), 5 press studs in front, no pockets	**	PE-HD
2.3	40032	Lab coat Tyvek® 500 (PL309), with zipper, 2 pockets	**	PE-HD
2.3	40096	Lab coat Chemsplash®, zipper in front, antistatic	**	PE / PP
2.3	407570	Lab coat Tychem® 2000 C (TC 0290), shin-length, rear closure	*	PE-HD
2.3	40100	Coverall, PP non-woven, 50 g/m², with integrated hood (elastic band)	***	PP
2.3	40105	Overall, PP non-woven, 40 g/m², without hood	****	PP
2.3	40010	Overall Tyvek® 500 Industry (CCF5), without hood	**	PE-HD
2.3	40040	Coverall Tyvek® 500 Xpert (CHF5), with integrated hood	**	PE-HD
2.3	40041	Coverall Tyvek® 600 Plus (CHA5 T WH 00), with integrated hood	**	PE-HD
2.3	40015	Coverall Tyvek® 600 Plus (CHA5 T WH 16), incorporated ankle socks	**	PE-HD
2.3	400710	Coverall WeePro®, with integrated hood (three parts), antistatic	**	PE/PP
2.3	400840	Coverall Chemsplash® Pro 63, with integrated hood, antistatic	**	PE/PP
2.3	400841	Coverall Chemsplash® Xtreme SMS 50 AS, integrated hood, antistatic	***	PP
2.3	40042	Coverall Tychem® 2000 C (CHA5TYL 00), integrated hood (elastic band)	*	PE-HD
2.3	40040S-CE	Coverall Tyvek® IsoClean® (IC 193), with integrated hood and overshoes	**	PE-HD
2.3	40010S	Overall Kimtech™ A5, without hood, with thumb loops	***	PP
2.3	40013-S	Overall Tyvek® IsoClean® (IC 183), without hood	**	PE-HD
2.3	400115	Overall BioClean-D™ S-BDCCT, without hood	***	PP with PE coating
2.3	40044S	Coverall BioClean-D™ S-BDHCT, with integrated hood	***	PP with PE coating
2.3	400441S	Coverall BioClean-D™ S-BDSH, integrated hood, zipper (inner leg area)	***	PP with PE coating

CleanTough™

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges. A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people,

Version 02/2023 · We are not liable for any printing mistakes!

A Tycke 500 A Tycke non-woven fabric coated with polymers that protect against concentrated inorganic chemicals.

Tychem 2000°C Spunbonded PE-HD non-woven fabric coated with polymers that protect against concentrated inorganic chemicals.

					Version					
					non-sterile	sterile	latex-free	electrostatic treated	decontaminated	
Abrasion resistant	Chemical protection	PPE Cat	. / Type of protection	Packaging		र्छ		t e	ğ	
*	*	Cat. I		single PE	/		/			
*	*	Cat. I		single PE						(
*	*	Cat. I		single PE	/		/			
*	*	Cat. I		single PE						
***	***	Cat. III	Type PB [6]	single PE			/			
***	***	Cat. III	Type PB [6]	single PE						
***	***	Cat. III	Type PB [6]	single PE						
**	**	Cat. I	Type PB [5], Type PB [6]	single PE						
***	***	Cat. III	Type PB [3]	single PE				✓		
*	*	Cat. I		single PE						
*	*	Cat. I		single PE						
***	***	Cat. III	Type 5, Type 6	single PE				✓		
***	***	Cat. III	Type PB [5], Type PB [6]	single PE				/		
***	***	Cat. III	Types PB [4, 5, 6]	single PE				/		
***	***	Cat. III	Types PB [4, 5, 6]	single PE				/		
**	**	Cat. III	Type PB [5], Type PB [6]	single PE				/		
**	**	Cat. III	Type PB [5], Type PB [6]	single PE	/			1		
**	**	Cat. III	Type 5, Type 6	single PE	/		1	/		
***	***	Cat. III	Types PB [3 – 6]	single PE	/		1	/		
***	***	Cat. III	Type 5-B, Type 6-B	double PE		/			1	
**	**	Cat. III	Type 5, Type 6	triple PE		/			1	
***	***	Cat. III	Type PB [5], Type PB [6]	double PE		/	1		1	
**	**	Cat. III	Type 5, Type 6	double PE		/	/	/		
**	**	Cat. III	Type 5, Type 6	double PE		/	√	✓		
**	**	Cat. III	Type 5, Type 6	double PE		1	√	✓		

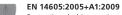




Chemical protective clothing

Regulation (EU) 2016/425 on Personal Protective Equipment





Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])



EN ISO 13982-1:2004+A1:2010

Protective clothing for use against solid particulates – Part 1:
Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing)



EN 13034:2005+A1:2009 Type 6 / PB [6]

Protective clothing against liquid chemicals – Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals

Further relevant standards



Protective clothing – Electrostatic properties – Part 5: Material performance and design requirements

Note: The antistatic finish on DuPont protective clothing is only effective in environments with >25% relative humidity and when the clothing is properly grounded.



EN 14126:2003

EN 1149-5:2018-11

Protective clothing – Performance requirements and test methods for protective clothing against infective agents



EN 1073-2:2002

Protective clothing against radioactive contamination – Part 2: $Requirements\ and\ test\ methods\ for\ non-ventilated\ protective\ clothing\ against\ particulate\ radioactive\ contamination$ Note: Does not protect against radioactive radiation.

Overview matrix

very good good satisfactory adequate



	Chap.	Art. No.	Description	Breathable	Material
	2.4	40121	Jacket Tyvek® 500 (PP33), with zipper and stitched on hood	**	PE-HD
	2.4	40050	Trousers Tyvek® 500 (PT31), rear elastic band, leg ends without bands, no pockets	**	PE-HD
ACCESSORIES	2.4	40052	Trousers PP non-woven, 50 g/m², leg ends without elastic bands, no pockets	***	PP
	2.4	40053	Trousers PP non-woven, 40 g/m², rear elastic band, antistatic finish	****	PP
	2.4	40750	Apron Tyvek® 500 (PA30), tie-tapes at rear, 108 cm long	**	PE-HD
	2.4	40751	Apron BioClean-C™ BCDA, CleanTough™, to tie, 164 – 176 cm long	**	PP with PE coating
	2.4	40754	Sleeve protector Tychem® 2000 C (PS3200)	*	PE-HD coating
	2.4	40720	Sleeve protector Tyvek® 500 (PS32LA)	**	PE-HD
CES	2.4	40742	Sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic	**	Microporous PE laminate
ACC	2.4	40750-S	Apron Tyvek® 500 (PA30L0 gamma irradiated), tie-tapes at rear	**	PE-HD
	2.4	407585	Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie	**	PP with PE coating
	2.4	407587	Apron with sleeves BioClean-C™ BCAS, CleanTough™, to tie	**	PP with PE coating
	2.4	4072230	Sleeve protector Tyvek® IsoClean® (501 B Option MS), elastic band on both sides	**	PE-HD
	2.4	407584	Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs	**	PP with PE coating
	2.4	40760S	Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated on both sides	***	PP with PE coating
	2.4	40770S	Sleeve protector Kimtech™ A5, elasticated on both sides, thumb loops	***	PP

CleanTough™ Tyvek® IsoClean®

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges. A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people, processes and products in controlled environments.

A Tyvek® non-woven fabric that protects against chemical particles and water-based splashes.

Spunbonded PE-HD non-woven fabric coated with polymers that protect against concentrated inorganic chemicals.

Tyvek® 500

Tychem 2000® C

	Chap.	Art. No.	Description	Breathable	Material
	2.5	40300	Overshoes, CPE	**	CPE
	2.5	40350	Overshoes, non-woven PP, with PE coating	**	PP/PE
	2.5	40351	Overshoes, non-woven PP	****	PP
	2.5	40362	Overshoes, non-woven PP, with PE coating, extra thick PVC sole	**	PP/PE PVC
	2.5	40381	Overshoes, spunbonded non-woven PP, CPE sole	**	PP/CPE
	2.5	40385	Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version	****	PP
	2.5	40386	Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version	****	PP
	2.5	40387	Overshoes, non-woven PP fabric, elasticated ankle-high version	****	PP
HET	2.5	40390	Overshoes, extra strong CPE, elasticated ankle-high version	**	CPE
出	2.5	40399	Overshoes, extra strong CPE, elasticated ankle-high version, slightly adhesive	**	СРЕ
	2.5	40320	Overboots Tyvek® 500 (POB0), elastic band, straps to fix, PE sole	**	PE-HD
	2.5	40323	Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip	**	PE-HD
	2.5	403250	Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole	***	PP with PE coating
	2.5	40376	Overboots 3M™ 450OVER, microporous PE laminate, anti-slip sole, antistatic	**	Microporous PE laminate
	2.5	40395	Overboots, extra strong CPE, elastic band, material with pressed-in pattern	**	СРЕ
	2.5	40322S	Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, anti-slip	***	PP with PE coating
	2.5	40323-S	Overboots Tyvek® IsoClean® (458 B Option MS), elastic band, ankle straps, anti-slip	**	PE-HD/Vinyl
	2.5	4032400S	Overboots Kimtech™ A5, elastic band, straps to tie, vinyl sole	***	Polyolefin/Vinyl

				Version					
Abrasion resistant	Chemical protection	PPE Cat. / Type of protection	Packaging	non-sterile	sterile	latex-free	electrostatic treated	decontaminated	
***	***	Cat. III Type PB [6]	single PE	1		/			
***	***	Cat. III Type PB [6]	single PE	✓		/			(
*	*	Cat. I	single PE	1		/			
*	*	Cat. I	single PE	/		/			
***	***	Cat. III Type PB [6]	single PE	√		/	1		
**	***	Cat. III Type PB [6]	single PE	√		/			
***	***	Cat. III Type PB [3]	single PE						
***	***	Cat. III Type PB [6]	single PE						
**	**	Cat. I	single PE				1		
***	***	Cat. III Type PB [6]	double PE						
**	***	Cat. III Type PB [6]	double PE						
**	***	Cat. III Type PB [6]	double PE						
***	***	Cat. III Type PB [6]	double PE					1	
**	***	Cat. III Type PB [6]	double PE						
**	**	Cat. III Type PB [6]	double PE						
**	**	Cat. I	double PE					/	

				non-sterile	<u>e</u>	latex-free	electrostatic treated	decontamina
Abrasion resistant	Chemical protection	PPE Cat. / Type of protection	Packaging	non-	sterile	late	elect	ресо
**	*	Cat. I	single PE	✓		/		
**	*	Cat. III Type PB [5], Type PB [6]	single PE	/		1		
*	*	Cat. I	single PE	/		1		
**	*	Cat. III Type PB [5], Type PB [6]	single PE	✓		1		
**	*	Cat. I	single PE	✓		1		
*	*	Cat. I	single PE	✓		1		
*	*	Cat. I	single PE			/		
*	*	Cat. I	single PE			/		
**	*	Cat. I	single PE			1		
**	*	Cat. I	single PE					
***	***	Cat. III Type PB [6]	single PE			/		
***	***	Cat. III Type PB [6]	single PE					
**	**	Cat. III Type PB [6]	double PE			/		
***	**	n. a.	single PE			/		
***	*	Cat. I	single PE					
**	**	Cat. III Type PB [6]	triple PE					
***	***	Cat. III Type PB [6]	double PE			1		
**	**	Cat. I	triple PE					

n. a. = not applicable

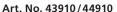


Cleanrooms and associated controlled

Product recommendations referring to cleanroom classes

environments – Part 1 Classification of air cleanliness by particle concentration EN ISO 14644 Recommendations (*) Art. No. Description 40500 Bouffant cap 40500201 Bouffant cap, Tyvek® IsoClean® (IC729SWHMS), sterile 4055001 Full protective hood with shoulder cover 4053100 MediCap AstroEco (astro hood) 40450 Beard cover 41600-bulk Face mask (18 cm), to tie 41610 Face mask (18 cm), with elastic ear loops 41610-bulk Face mask (18 cm), with elastic ear loops 41630 Face mask (18 cm), with elastic headbands 43410 Face mask Kimtech™ M3 (18 cm), with elastic ear loops 43420 Face mask Kimtech™ M3 (18 cm), with flat PES headbands to tie 42600-bulk Face mask (21 cm), with ties 42610 Face mask (21 cm), with elastic ear loops HEAD/FACE 42310 Face mask (21 cm), with elastic ear loops 42630-23 Face mask (23 cm), with elastic headbands 43415 Face mask Kimtech™ M3 (23 cm), pleated design, with elastic ear loops 43425 Face mask Kimtech™ M3 (23 cm), pleated design, with soft ties 45420 Face mask M-PMEC143 (23 cm), with elastic ear loops 45425 Face mask M-PMEC143-25 (23 cm), with shortened elastic ear loops, alu noseband 43910 Face mask Kimtech™ M3, duckbill-shape, gap guard, knitted headbands 43520 Face veil Kimtech™ M7, 2 press studs each for adjustment 43530 Face veil Kimtech™ M7, with elastic headband 4055002S Full protective hood Kimtech™ A5, sterile 4055202S Full protective hood Kimtech™ A5, with integrated face mask, sterile 40520-S Full protective hood Tyvek® IsoClean® (IC668B Option MS), sterile 44810 Face mask Kimtech™ M3 (18 cm), with elastic ear loops, sterile 44830 Face mask Kimtech™ M3 (23 cm), soft ties, pleated design, sterile 44910 Face mask Kimtech™ M3, duckbill-shape, gap guard, knitted headbands, sterile 44911 Face mask BDBS-G, pouch-style, neck guard, knitted headbands, sterile



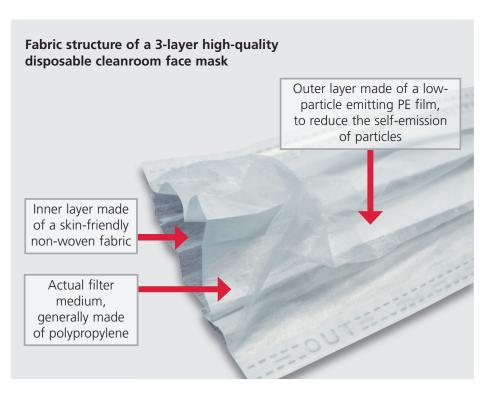




Art. No. 40500



Art. No. 40450





A one-to-one classification of disposable garments to a clean-room class according to EN ISO 14644-1 is not possible.

Recommendations can only be made based on specific, from cleanroom viewpoint relevant properties, e.g. abrasion resistance or particle emission and, to some extent, filtration efficiency. In the VDI guidance 2083 Part 9.2, the user can find additional information.

Product recommendations referring to cleanroom classes

Recommendations (*)

Cleanrooms and associated controlled environments – Part 1 Classification of air cleanliness by

Recommendations (*)						EN ISO	14644-1	I
Art. No.	Description	3	4	5	6	7	8	9
40060	Lab coat, PP non-woven, 50 g/m², 5 press studs in front							
40061	Lab coat, PP non-woven, 40 g/m², zipper in front							
40062	Lab coat aus PP non-woven, 40 g/m², 4 press studs in front, no pockets							
40063	Lab coat aus PP non-woven, 30 g/m², 4 press studs in front, no pockets							
40030	Lab coat Tyvek® 500 (PL30), 5 press studs in front, 3 pockets							
40031	Lab coat Tyvek® 500 (PL30NP), , 5 press studs in front, no pockets							
40032	Lab coat Tyvek® 500 (PL309), with zipper, 2 pockets						•	
40096	Lab coat Chemsplash®, zipper in front, antistatic							
407570	Lab coat Tychem® 2000 C (TC 0290), shin-length, rear closure							
40100	Coverall, PP non-woven, 50 g/m², with integrated hood (elastic band)							
40105	Overall, PP non-woven, 40 g/m², without hood						•	
40010	Overall Tyvek® 500 Industry (CCF5), without hood							
40040	Overall Tyvek® 500 Xpert (CHF5), without hood							
40041	Coverall Tyvek® 600 Plus (CHA5 T WH 00), with integrated hood							
40015	Coverall Tyvek® 600 Plus (CHA5 T WH 16), incorporated ankle socks							
400710	Coverall WeePro®, with integrated hood (three parts), antistatic							
400840	Coverall Chemsplash® Pro 63, with integrated hood, antistatic							
400841	Coverall Chemsplash® Xtreme SMS 50 AS, integrated hood, antistatic							
40042	Coverall Tychem® 2000 C (CHA5TYL 00), with integrated hood (elastic band)							
400105	Overall Kimtech™ A5, without hood, with thumb loops, sterile							
40013-S	Overall Tyvek® IsoClean® (IC 183), without hood, sterile							
40040S-CE	Coverall Tyvek® IsoClean® (IC 193), with integrated hood and overshoes, sterile							
400115	OverallBioClean-D™ S-BDCCT, without hood, sterile							
400445	Coverall BioClean-D™ S-BDHCT, with integrated hood, sterile							
4004415	Coverall BioClean-D™ S-BDSH, with integrated hood, zipper (inner leg area), sterile							



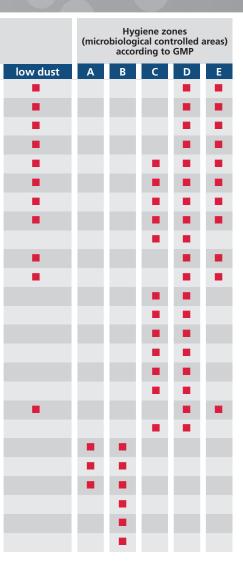
Disposable overall Tyvek® 500 Industry, Art. No. 40010



Disposable lab coat made of Tyvek® 500, press studs in front, Art. No. 40030



Sterile disposable garments, Kimtech™ A5, e. g. Art. No. 40010S



(*)

A one-to-one classification
of disposable garments to a cleanroom class according to EN ISO 14644-1
is not possible.
ecommendations can only be made based
on specific, from cleanroom viewpoint
relevant properties, e.g. abrasion
resistance or particle emission and,
to some extent, filtration efficiency.
In the VDI guidance 2083 Part 9.2,
the user can find additional
information.



Product recommendations referring to cleanroom classes

Art. No. Description Jacket Tysek* 500 (P931), with zipper and stitched on hood		Recommendations (*)			Cleanrooms and associated controlled environments – Part 1 Classification of air cleanliness by particle concentration EN ISO 14644-1						
Trousers Tyvek* 500 (PT31), rear elastic band, leg ends without bands, no pockets Trousers PP non-woven, 50 g/m², leg ends without elastic bands, no pockets Trousers PP non-woven, 40 g/m², rear elastic band, antistatic finish Apron Tyvek* 500 (PA30), tie-tapes at rear, 108 cm long 40750 Apron Tyvek* 500 (PA30), tie-tapes at rear, 108 cm long 40751 Apron BioClean-C™ BCDA, CleanTough™, to tie, 164 – 176 cm long 40754 Sleeve protector Tychem* 2000 C (PS3200) 140720 Disposable sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 40742 Sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 407585 Apron Tyvek* 500 (PA3010 gamma irradiated), tie-tapes at rear, sterile 407586 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile 407587 Apron with sleeves BioClean-C™ BCAS, CleanTough™, to tie, sterile 407584 Sleeve protector Tyvek* boClean* (SDIB Option MS), elastic band/both sides, sterile 40760 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 40760 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated sterile 407705 Sleeve protector Kimtech™ AS, elasticated on both sides, thumb loops, sterile 40300 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP, with PE coating 40362 Overshoes, non-woven PP, with PE coating 40363 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, extra strong CPE, elasticated ankle-high version 40380 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40380 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40320 Overboots Tyvek* 500 (POBO), elastic band, straps to fix, PE sole 40323 Overboots SinVek* 500 (POBO), elastic band, straps to fix, PE sole 40325 Overboots SinVek* 500 (POBO), elastic band, straps to fix, P		Art. No.	Description	3	4				8	9	
Trousers PP non-woven, 50 g/m², leg ends without elastic bands, no pockets 40053 Trousers PP non-woven, 40 g/m², rear elastic band, antistatic finish 40750 Apron Tyck® 500 (PA30), tie-tapes at rear, 108 cm long 40751 Apron BioClean-C™ BCDA, CleanTough™, to tie, 164 – 176 cm long 40754 Sleeve protector Tychem® 2000 C (PS3200) 40720 Disposable sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 40730-5 Apron Tyck® 500 (PA30L) agamma irradiated), tie-tapes at rear, sterile 407585 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile 407587 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile 407588 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 407584 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 407605 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 407705 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated, sterile 407705 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated, sterile 40300 Overshoes, non-woven PP, with PE coating 40350 Overshoes, non-woven PP, with PE coating 40361 Overshoes, non-woven PP, with PE coating 40381 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40380 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40390 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40320 Overboots Tyck® 500 (POBA), elastic band, straps to fix, PE sole 40323 Overboots BioClean™ S-BDOB, CleanTough™, tie-tapes, anti-slip sole, antistatic 40395 Overboots BioClean™		40121	Jacket Tyvek® 500 (PP33), with zipper and stitched on hood								
Trousers PP non-woven, 40 g/m², rear elastic band, antistatic finish 40750 Apron Tyvek* 500 (PA30), tie-tapes at rear, 108 cm long 40751 Apron BioClean-C™ BCDA, CleanTough™, to tie, 164 – 176 cm long 40754 Sleeve protector Tychem* 2000 C (PS3200) 40720 Disposable sleeve protector Tyvek** 500 (PS32L0) 40742 Sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 40750-5 Apron Tyvek* 500 (PA3010 gamma Irradiated), tie-tapes at rear, sterile 407587 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile 407588 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie 407584 Sleeve protector Tyvek* IsoClean* (5018 Option MS), elastic band/both sides, sterile 407605 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 407605 Sleeve protector BioClean-D™ S-BCSC, CleanTough™, elasticated, sterile 407705 Sleeve protector BioClean-D™ S-BCSC-L, CleanTough™, elasticated, sterile 40300 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP, with PE coating 40362 Overshoes, non-woven PP, with PE coating, extra thick PVC sole 40381 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, Sextra strong CPE, elasticated ankle-high version 40300 Overshoes SidClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40316 Overboots Silvek* 500 (POBA), elastic band, straps to fix, PE sole 40320 Overboots Silvek* 500 (POBA) elastic band, straps to fix, PE sole 40321 Overboots Silvek* 500 (POBA) elastic band, straps to fix, elastic sterile, anti-slip PU sole 403225 Overboots Silvek* 500 (POBA) elastic band, ite-tapes, anti-slip PU sole		40050	Trousers Tyvek® 500 (PT31), rear elastic band, leg ends without bands, no pockets								
40750 Apron Tyvek ⁶ 500 (PA3O), tie-tapes at rear, 108 cm long 40751 Apron BioClean-C™ BCDA, CleanTough™, to tie, 164 – 176 cm long 40754 Sleeve protector Tychem® 2000 C (PS32DO) 40720 Disposable sleeve protector Tyvek® 500 (PS32LA) 40742 Sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 40750-5 Apron Tyvek® 500 (PA3OLO gamma irradiated), tie-tapes at rear, sterile 407585 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile 407587 Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie 4072230 Sleeve protector Tyvek® BCAS, CleanTough™, elastic band/both sides, sterile 407584 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elastic band/both sides, sterile 407605 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated Pc Luffs, sterile 407605 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated, sterile 407705 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated, sterile 407705 Sleeve protector Kimtech™ A5, elasticated on both sides, thumb loops, sterile 40300 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP, with PE coating 40362 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40320 Overboots Tyvek® 500 (POBO), elastic band, straps to fix, PE sole 40323 Overboots Side Bood (POBO), elastic band, straps to fix, anti-slip 403250 Overboots Side Side Side Bood (POBO), elastic band, material with pressed-in pattern 403250 Overboots Side Side Side Side Side Side Side Side		40052	Trousers PP non-woven, 50 g/m², leg ends without elastic bands, no pockets								
40751 Apron BioClean-C¹™ BCDA, CleanTough¹™, to tie, 164 – 176 cm long 40754 Sleeve protector Tychem® 2000 C (PS3200) 40720 Disposable sleeve protector Tywek® 500 (PS32LA) 40742 Sleeve protector, microporous non-woven fabric, elastic band/wristband, antistatic 40750-5 Apron Tywek® 500 (PA30L0 garma irradiated), tie-tapes at rear, sterile 407587 Apron with sleeves BioClean-C¹™ S-BCAS, CleanTough¹™, to tie, sterile 4075887 Apron with sleeves BioClean-C¹™ S-BCAS, CleanTough¹™, to tie 4072330 Sleeve protector Tywek® IsoClean® (5018 Option MS), elastic band/both sides, sterile 407584 Sleeve protector BioClean-C¹™ S-BCSC, CleanTough¹™, elasticated PE cuffs, sterile 407605 Sleeve protector BioClean-C¹™ S-BCSC, CleanTough¹™, elasticated, sterile 407705 Sleeve protector Kimtech¹™ A5, elasticated on both sides, thumb loops, sterile 40300 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP, with PE coating 40362 Overshoes, non-woven PP, with PE coating, extra thick PVC sole 40381 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40385 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP pfabric, elasticated ankle-high version 40387 Overshoes, non-woven PP pfabric, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40300 Overshoes, extra strong CPE, elasticated ankle-high version 40301 Overshoes stra strong CPE, elasticated ankle-high version 40302 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip 40323 Overboots BioClean-D¹™ BDOB, CleanTough¹™, elastic band, tie-tapes, anti-slip PU sole 40376 Overboots BioClean-D¹™ BDOB, CleanTough¹™, elastic band, tie-tapes, sterile		40053	Trousers PP non-woven, 40 g/m², rear elastic band, antistatic finish								
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Sleeve protector Tyvek® IsoClean® (501B Option MS), elastic band/both sides, sterile 407584 Sleeve protector BioClean-C™ S-BCSC, CleanTough™, elasticated PE cuffs, sterile 407605 Sleeve protector BioClean-D™ S-BDSC-L, CleanTough™, elasticated, sterile 407705 Sleeve protector Kimtech™ A5, elasticated on both sides, thumb loops, sterile 40300 Overshoes, CPE 40350 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP, with PE coating 40362 Overshoes, non-woven PP, with PE coating, extra thick PVC sole 40381 Overshoes, spunbonded non-woven PP, CPE sole 40385 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP fabric, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40320 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, PE sole 40323 Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40376 Overboots 3M™ 450OVER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 403225 Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		407585	Apron with sleeves BioClean-C™ S-BCAS, CleanTough™, to tie, sterile								
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40350 Overshoes, non-woven PP, with PE coating 40351 Overshoes, non-woven PP 40362 Overshoes, non-woven PP, with PE coating, extra thick PVC sole 40381 Overshoes, spunbonded non-woven PP, CPE sole 40385 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP fabric, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40399 Overshoes, extra strong CPE, elasticated ankle-high version, slightly adhesive 40320 Overboots Tyvek® 500 (POBO), elastic band, straps to fix, PE sole 40323 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip 403250 Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40376 Overboots 3M™ 4500VER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 40322S Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40770S	Sleeve protector Kimtech™ A5, elasticated on both sides, thumb loops, sterile								
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40381 Overshoes, spunbonded non-woven PP, CPE sole 40385 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP fabric, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40399 Overshoes, extra strong CPE, elasticated ankle-high version, slightly adhesive 40320 Overboots Tyvek® 500 (POBO), elastic band, straps to fix, PE sole 40323 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip 403250 Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40376 Overboots 3M™ 4500VER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 403225 Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40351	Overshoes, non-woven PP								
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40386 Overshoes, non-woven PP, conductive strip, elasticated ankles, higher version 40387 Overshoes, non-woven PP fabric, elasticated ankle-high version 40390 Overshoes, extra strong CPE, elasticated ankle-high version 40399 Overshoes, extra strong CPE, elasticated ankle-high version, slightly adhesive 40320 Overboots Tyvek® 500 (POBO), elastic band, straps to fix, PE sole 40323 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip 403250 Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40376 Overboots 3M™ 450OVER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 40322S Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40381	Overshoes, spunbonded non-woven PP, CPE sole								
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40323 Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip 403250 Overboots BioClean-D™ BDOB, CleanTough™, tie-tapes, anti-slip PU sole 40376 Overboots 3M™ 4500VER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 40322S Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40399	Overshoes, extra strong CPE, elasticated ankle-high version, slightly adhesive								
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40376 Overboots 3M™ 4500VER, microporous PE laminate, anti-slip sole, antistatic 40395 Overboots, extra strong CPE, elastic band, material with pressed-in pattern 40322S Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40323	Overboots Tyvek® 500 (POBA), elastic band, straps to fix, anti-slip								
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40322S Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile		40376	Overboots 3M™ 4500VER, microporous PE laminate, anti-slip sole, antistatic								
		40395	Overboots, extra strong CPE, elastic band, material with pressed-in pattern								
40323-S Overboots Tyvek® IsoClean® (458 B Option MS), elastic band, ankle straps, sterile		403225	Overboots BioClean™ S-BDOB, CleanTough™, elastic band, tie-tapes, sterile								
		40323-S	Overboots Tyvek® IsoClean® (458 B Option MS), elastic band, ankle straps, sterile								
4032400S Overboots Kimtech™ A5, elastic band, straps to tie, vinyl sole, sterile		4032400S	Overboots Kimtech™ A5, elastic band, straps to tie, vinyl sole, sterile								

CleanTough™ Tyvek® IsoClean®

Non-woven polypropylene fabric with laminated polyethylene film with chemical protection. Protection options against: chemicals, antistatic discharges. A Tyvek® non-woven fabric (made of PE-HD continuous fibre threads) produced by flash spinning, protecting people, processes and products in controlled environments.

Tyvek® 500 A Tyvek® non-woven fabric that protects against chemical particles and water-based splashes.

Tychem 2000® C Spunbonded PE-HD non-woven fabric coated with polymers that protect against concentrated inorganic chemicals.



