



Bio-D CLEANROOM GARMENTS

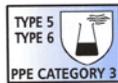
Available as **sterile** and **non-sterile** garment

BIO-D garments have been carefully designed and researched to provide the wearer with both, superior comfort and maximum protection.

The garments are manufactured from a revolutionary new Clean-Tough™ fabric which is **antistatic**, lightweight, hard-wearing and compatible for use in ISO Class 4 cleanrooms.

All Bio-D products are individually packed in a sealed bag. The special print encapsulation process ensures bags can be wiped down with cleaning or sterilising fluids without fear of cross contamination.

Available products:



CE
0120

- Coverall with hood
- Coverall without hood
- Lab coat
- Hood
- Sleeve cover
- Overboot

Properties:

Surface resistance:

Typical outside surface

$4.4 \times 10^{11} \Omega$

Typical inside surface

$4.0 \times 10^8 \Omega$

Quality system:

ISO 9001:2008 certified

Storage:

Store in a dry, cool place (<40°C), away from direct sunlight

LOT number:

This is shown on each individual bag and the carton to provide product traceability

Performance

Covers the requirements of Protective Clothing against chemicals specified in: Personal Protective Equipment Directive 89/686/EEC, Complex Design Equipment (Category 3) EN 13034:2005 (Type PB[6])

Test:	Result:	Performance class (EN 14325)
Abrasion resistance	10 – 100 cycles	1
Flex cracking resistance	5.000 – 15.000 cycles	3
Trapezoidal tear resistance	MD 50.8 N CD 29.5 N	3 2
Tensile strength	MD 79.3 N CD 59.4 N	2 1
Puncture resistance	5.9 N	2
Seam strength *1	103.2 N	3



Resistance to ignition	Pass	N/A
Repellence to liquids	30% H ₂ SO ₄	96,9%
	10% NaOH	98,0%
	O-Xylene	94,6%
	Butan-1-ol	95,4%
Resistance to penetration by liquids	30% H ₂ SO ₄	0%
	10% NaOH	0%
	O-Xylene	0%
	Butan-1-ol	0%

*1 Seam not destroyed

Additional tests undertaken but not required for Type 5/6

Type of test:	Test method:
Particle shedding	Helmke Drum*
Resistance to blocking	ISO 5978
Repellency to liquids	
n-Heptane	EN 368
Isopropanol	EN 368
Resistance to penetration by liquids	
n-Heptan	EN 368
Isopropanol	EN 368
Synthetic blood penetration resistance	ASTM F1670

* Compatible for use in ISO class 4 cleanrooms. All tests completed by independent approved laboratories

Resistance to permeation by chemotherapy drugs– ASTM 6978-05

Test Chemical	Result*
Cisplatinum	No detection after 480 minutes
Carmustine	
Cyclophosphamide	
Doxorubicin Hydrochloride	
5-Fluorouracil	
Methotrexate	
Etoposide	
Paclitaxel (Taxol)	
Thio-Tepa	

* Tested at 0.01µg/cm²/min.



Cleanroom coat

- Extremely strong fastening studs ensure the garment does not open accidentally
- Very strong seams ensure the garment retains its shape and fit
- Two hip pockets and chest pocket for convenient storage
- Open cuffs and rear vent for comfort during use

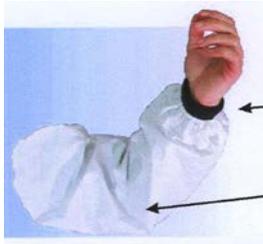
This lightweight unisex coat has a very smart appearance and is designed for maximum comfort.

Size:	Article no.: Non-sterile	Article no.: sterile	Colour / Packaging unit
S	EKBIO30S	ESTKBIO30S	White / 30 pcs.
M	EKBIO30M	ESTKBIO30M	
L	EKBIO30L	ESTKBIO30L	
XL	EKBIO30XL	ESTKBIO30XL	
XXL	EKBIO30XXL	ESTKBIO30XXL	



OVERBOOT – sole not antistatic

- Elasticated top for a comfortable yet protective seal
- Non-slip sole to prevent accidental falls



SLEEVE COVER

- Elasticated openings allow easy donning and a comfortable yet protective seal
- Provides full coverage and protection from wrist to upper arm

HOOD

- Shaped to provide a good fit on the head thus providing max. comfort
- Elasticated face opening to provide comfortable yet protective seal



	PU:	Article no.: <i>Non-sterile</i>	Article no.: <i>sterile</i>	Colour:
Overboot	150 pcs.	EÜSTBIO	ESTÜSTBIO150	White
Sleeve cover	180 pcs.	EÄBIO180	ESTÄBIO180	
Hood	180 pcs.	EBBIO180	ESTEBBIO180	

Cleanroom overall with or without hood



- The hood has been designed to be used with or without a face mask
- The hood, cuffs and ankles have an elasticated finish which provides a protective seal
- The zip is fitted with a double layer cover for extra protection
- The elasticated back ensures a close and comfortable fit

A very comfortable coverall giving full flexibility to the wearer with maximum protection.

Size:	Article no.: <i>non-sterile</i>	Article no.: <i>sterile</i>	Colour / Packaging unit
XS	EOVBIOK20XS	ESTOVK20XS	White / 20 pcs.
S	EOVBIOK20S	ESTOVK20S	
M	EOVBIOK20M	ESTOVK20M	
L	EOVBIOK20L	ESTOVK20L	
XL	EOVBIOK20XL	ESTOVK20XL	
XXL	EOVBIOK20XXL	ESTOVK20XXL	



- The zip is fitted with a double layer cover for extra protection
- The elasticated back ensures a close and comfortable fit
- Cuffs and ankles have an elasticated closure which provides a protective seal

A coverall designed for use in areas where a **hood is not required**.

Size:	Article no.: non-sterile	Article-no.: sterile	Colour / Packaging unit
S	EOVBIO20S	ESTOV20S	White / 20 pcs.
M	EOVBIO20M	ESTOV20M	
L	EOVBIO20L	ESTOV20L	
XL	EOVBIO20XL	ESTOV20XL	
XXL	EOVBIO20XXL	ESTOV20XXL	

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