

TECHNICAL DATA SHEET

Optimum Type 5 & 6 Coveralls



DESCRIPTION

Optimum Type 5 & 6 coveralls are a superior quality garment manufactured from breathable liquid resistant microporous material. The material allows the skin to breathe whilst resisting the penetration of many different non-hazardous liquids and particles. The material is strong and our garment offers knitted cuffs for a more comfortable fit. A serious alternative - at a fraction of the cost. Typical applications include laboratory, clean rooms, pharmaceutical, food processing, forensic science, medical and paint spray. **Note: Overboots (as shown in the photo) are sold separately.**



TECHNICAL SPECIFICATION

Manufacture	Optimum Protection
Sterility	Non-Sterile
Material	Microporous
Quantity	Single garment or carton of 25
Size	S – 3 XL
Test Standards	EN 13982– 1 (Airborne solid particles, Type 5) EN 13034 (Liquid chemical splash, Type 6) EN 14126 (Infective Agents) EN 1149-5 (Electrostatic Discharge) EN 1073-2 (Particulate Radioactive Contamination) UKCA 0120 CE 0598

FEATURES

- Type 5 & 6 Certified Category III PPE
- Anti-Static to EN 1149-5
- Barrier to Radioactive Particles - Class I
- Barrier to Infective Agents - EN 14126
- Low Lint Microporous Material
- Breathable Fabric
- Comfortable Knitted Cuffs
- Self-Adhesive Flap Covering the Zip
- Strong

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International care symbols

Do Not Wash	Do Not Iron	Do Not Machine Dry	Do Not Dry Clean	Inflammable

This garment is expressly constructed as protection against chemical hazards, and should not, under any circumstances, come into contact with naked flame, or be used in a combustive situation.

The open book symbol informs the wearer to study these ‘Instructions for Use’

Where the antistatic symbol is shown the Optimum coverall has been antistatically treated to offer electrostatic protection to Standard EN1149-5(2.49x109Ω)

Optimum coveralls offers protection of barrier to radioactive particulates to Standard EN1073-2 (Class 1)

Optimum coverall offers protection of barrier to bacteriophage to Standard EN14126

Size	Chest Girth (cm)	Height (cm)
M	122	163
L	132	173
XL	142	180
XXL	152	185
XXXL	156	189

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Test	Result	Class
EN 13034 + EN 1392- 1 + EN 1073-2		
Resistance to penetration (EN ISO 6530)		
H ₂ SO ₄ 30%	0.0%	3/3
NaOH 10%	0.0%	3/3
O-xylene	0.0%	3/3
Butan 1 ol	0.0%	3/3
Repellency to Liquid (EN ISO 6530)		
H ₂ SO ₄ 30%	95.0%	3/3
NaOH 10%	95.1%	3/3
O-xylene	91.9%	2/3
Butan 1 ol	94.2%	2/3
Abrasion Resistance (EN 530 met)	300 cycles	2/6
Trapezoidal tear resistance (EN ISO 9073-4)	45.3 N weft– 26.5 N warp	2/6
Tensile Strength (EN ISO 13934-1)	100 N weft – 55 N warp	1/6
Puncture resistance (EN 863)	14.4 N	2/6
Flex cracking resistance(EN ISO 7854 method B)	No damage after 100.00 cycles	6/6
Light spray test (EN 13034-EN 468)	No stains on the witness coveralls	Pass
Inward leakage test (EN 13982-2)	N.p.f 35.5 Ljmn82/90≤30% and Ls8/10≤15%	Pass- Class 1

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Areas of Use

TYPE 5: Coveralls are manufactured to provide protection to both product and personnel. They are typically used, dependant on the conditions and severity of the toxicity, for protection against airborne particles and fibres. TYPE 6: coveralls are manufactured to provide protection from limited splash and spray, where the risk of chemical exposure has been assessed as low and the type of potential exposure is defined as low risk.

Way of Dressing

Open the zip, insert legs and dress, taking care not to break the material. Close the zip and pull the adhesive. Make the adhesive strip attach to the coverall without folding.

Storage and Disposal

Optimum coverall can be stored in accordance with normal storage practices, and disposed of without harm to the environment. Restrictions on disposal depend solely on contamination during use. If in doubt, please contact your supplier or Cleanroom Supplies LTD for the correct procedure.

Warnings

The choice of type of fabrics and garments is extremely important to protect the personnel, and the environment. The following facts must be taken into account when deciding on the correct clothing:

The concentration and the toxicity of the chemical substance to be handled
Concentration and quantity of liquid spray and splash
The conditions under which they are used
For dry and airborne particles, the type, size and toxicity of the particles
Make sure that the size corresponds with the user
Check that the product has no defect and is in good condition (no holes, unsewed part etc.)
The disposable item should be replaced after every use. Abandon the place of work immediately in case of damage of the product.

Exposure to certain chemicals in high concentrations may require higher barrier properties, either in terms of the holdout properties of the fabric or in the construction of the suit. Such areas can be protected by garments in Types 1 to 4. Care should be taken where pockets are attached. Beware of overloading pockets, although provision has been made to allow chemicals to escape, users should be aware that they can harbour contaminants and take adequate precautions. The user shall be the sole judge of the suitability for the type of protection required, and the correct combination of coveralls and ancillary equipment. To obtain full protection, all apertures should be securely closed, but the user shall determine, and allow for, the effect of heat in use. Heat stress and discomfort can be reduced or eliminated by the use of appropriate undergarments, or suitable ventilation equipment. Cleanroom Supplies Ltd cannot accept responsibility for any improper use of garments produced by them.