

KLEENGUARD* Apparel

A45 Breathable Liquid and Particle Protection Coverall

Suitable for critical production environments such as pharmaceutical industries, manufacturing, utilities, electronics, agriculture and paint spraying.

Protection against chemical splash and particles

- Front, arms, legs and hood made in film laminate fabric
- Superior breathability with its back panel in durable SMS Fabric with additional treatment for increased protection against chemical splash
- Anti-static fabric EN 1149-1 for critical areas
- Ultra low-lint performance, film laminate and internally bound seams significantly reduce levels of lint
- Silicone free, ideal for paint spraying
- Full length zip eases ability to get in/out of garment and offers better coverage of chin and neck
- Specially designed hood for respirator fit and freedom of movement
- Longer arms for a better fit with gloves
- EN 1073-2 approved for radioactive dust protection⁽¹⁾



Standard apparel – after 10 minutes of strenuous work.



KLEENGUARD* A45 Coverall
The temperature is lower and more homogeneous. The body stress for the person is considerably lower.

Product Performance Data

Property		
Fabric Tests	Test Method	Class ⁽²⁾ or Result
Abrasion resistance	EN 530 Mth 2	2
Flex cracking resistance	ISO 7854 Mth B	4
Trapezoidal tear resistance	ISO 9073-4	2
Puncture resistance	EN 863	1
Tensile strength	EN ISO 13934-1	1
Repellence to liquids	EN 368 (10% NaOH) / (30% H ₂ SO ₄)	3 / 3
Resistance to penetration by liquids	EN 368 (10% NaOH) / (30% H ₂ SO ₄)	3 / 3
Resistance to ignition	EN 13274-4 Mth 3	PASS
Seam strength	EN ISO 13935-2	3
Surface resistivity	EN 1149-1	< 5 x 10 ¹⁰ ohm

Whole Garment Tests		
Resistance to penetration by liquids in the form of a light spray (mist test)	EN 468 (modified)	PASS
Determination of resistance of suits to penetration by aerosols and fine particles	pr ISO 13982-2	Average Total Inward Leakage 3.4% avg
Radioactive dust	EN 1073-2:2002	1

(Tests performed with taping at wrists, ankles and hood)

(1) Provides no protection against radioactive radiation

(2) As specified in European Standards documents EN 13034:2005 and EN ISO 13982-1:2004



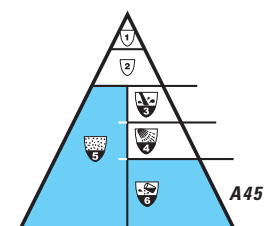
High performance apparel fabric

Front, arms, legs and hood – outer layer – film coating resists splash and spray from many liquids and dry particulates.

Inner layer – cloth-like, yet tough and abrasion-resistant spunbond polypropylene. Back panel – outer layer – cloth-like, yet strong and abrasion-resistant spunbound polypropylene.

Inner layer – intricate web of microfibres that filters out many water-based liquids and dry particulates.

CE0120	EN ISO 13982-1:2004 Type 5 Particle protection	EN 13034:2005 Type 6 Limited splash protection	EN 1073-2:2002 Radioactive dust contamination protection	EN 1149-1:1995 Antistatic



Description	Size/Code	S	M	L	XL	XXL	XXXL	Colour	Case Contents	PPE Classification	Type
A45 Coverall		99650	99660	99670	99680	99690	99700		25 x	CAT III	5 & 6