KLEENGUARD®*A40* Apparel Product Description

Intended Use

KLEENGUARD® *A40* Apparel are

- Limited life protective clothing designed to protect the user from liquid aerosols, spray and light splashing where the risk of chemical exposure is defined as low risk, such as agricultural spraying.
- Suitable for use as protection against solid particles and particulate radioactive contamination.
- Treated to be antistatic to EN 1149-1
- Extremely low lint and therefore are suitable for tasks such as paint spraying cars and clean room environments.
- Approved as Complex design (Category 3) equipment offering protection to the levels specified for Type 6 (performance requirements for chemical protective suits offering limited protective performance against liquid chemicals) and Type 5 (particulates) by CEN.

Product Description

Kimberly-Clark has invested in garment design and in the development of materials specifically for protective clothing to be able to offer the user the ideal combination of protection with comfort. Wearing garments of high breathability can reduce the effects of heat stress and therefore maintaining the efficiency and effectiveness of the wearer.

The fabric

KLEENGUARD® *A40* Garments are made from a breathable micro-porous film laminate. The film provides an excellent barrier to chemical splash penetration (class 3 (<1%)), over a wide range of surface tensions. The film also exhibits low lint. The non-woven is designed to provide high strength and durability.

The seams

To provide high strength seams with barrier properties sewn seams are used with triple overlock stitching.

The Zip

Auto-locking high quality full-length zips are used with stoppers to prevent strain.

Silicone Free

All components are carefully selected and specified as silicone free – an important reassurance for anyone working with paint or sensitive surfaces.

Symbols and Marking on the garment – what they tell you

	This symbol demonstrates that the garment is suitable for protection against chemicals. The CE mark followed by 0120 indicates that this is equipment of Complex Design (cat 3), and that the product is manufactured under a quality system, which has been approved by, notified body 0120 (SGS Weston-Super-Mare).
	Type 5 - Limited use clothing offering particle protection.
	Type 6 - Limited splash clothing.
	EN1149-1 Antistatic Clothing (Electrostatic dissipative protective clothing to avoid incendiary discharges).
	EN1073-2 Protective clothing against radioactive contamination (Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination)
	The open book pictogram - indicates that the user should read and understand the USER INSTRUCTIONS before using the garment.
	Inflammable. Keep away from open flames, sparks or intense heat sources. The fabric will begin to melt at approx. 120°C
	Do not wash
	Do not tumble dry
	Do not use chlorine - based bleach
	Do not iron
	Do not dry clean

Product Performance Data

To be certified as a Type 5 and Type 6 chemical protective garment, KLEENGUARD® *A40* Garments must meet certain performance requirements laid down by CEN, the European committee for normalisation. The standards apply throughout all member states of the EU.

For each property test data is classified into bands indicted by a CLASS number on a scale where 1 is lowest. There are a different number of classes for different tests. For some tests a simple pass /fail result is given.

The product performance data for KLEENGUARD® *A40* Garments is shown below.

Limited Use Chemical Protective Clothing (Type 5&6)

Property	Test Method	Class/Result
Abrasion Resistance	EN 530 M2	Class 6 of 6 (Visual) Class 2 of 6 (Pressure Pot)
Stability to Heat	ISO 5978	Class 2 of 3 No Blocking
Flex Cracking Resistance	ISO 7854 M B	Class 4 of 6
Trapezoidal Tear Resistance	ISO 9073-4	Class 2 of 6
Puncture Resistance	EN 863	Class 2 OF 6
Repellence to Liquids	EN ISO 6530	10%NaOH Class 3 of 3 30%H_2SO_4 Class 3 of 3 Isopropanol Class 1of 3
Resistance to Penetration by Liquid Chemicals	EN ISO 6530	10%NaOH Class 3 of 3 30%H_2SO_4 Class 3 of 3 Isopropanol Class 1 of 3
Resistance to Ignition	EN13274:4 M3	PASS
Seam Strength	EN ISO 13935-2	Class 3
Resistance to Penetration by Liquids (spray test)	EN ISO 17491-4(modified)	PASS
Surface Resistivity	EN 1149-1 1996	PASS
Determination of resistance of suits to penetration by aerosols and fine particles	EN ISO 13982-Part 1 & 2	AVERAGE T.I.L. TILa = 5.09%
Protective Clothing against Radioactive Contamination	EN1073-2	Protection Factor 1

Type 6 to EN 13034 :2005 Type 5 to EN ISO 13982-1 (2004)