**KLEENGUARD***
**Protective Clothing**

INFOFAX

## KLEENGUARD* *A50* Product Description

### Intended Use

KLEENGUARD®* A50 Ultra Garments 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.
- Also offer protection against solid particles.
- Are treated to be antistatic.
- Experience low lint and therefore are suitable for tasks such as paint spraying cars and aircraft.
- 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* A50 Garments are made from an engineered structure called SMS which was invented by Kimberly-Clark and initially used to offer medical staff protection with comfort in critical conditions. The fabric has been developed to suit it for the challenges of industrial applications. The 3 layers of the fabric are made up of polyolefin fibres, which are carefully engineered to deliver a combination of strength, durability and protection. The outer layers use large strong fibres to resist wear and tear and protect the central core layer. The centre of the structure is made up of closely packed fine fibres, which act as a highly efficient filter to particles and as a barrier to many liquids. The fabric is treated to ensure liquid repellency and antistatic properties.

### The seams

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

### The Zip

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

| | |
|---|---|
| CE 0120 | 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 (SQS Yardley International). |

| | | | |
|---|---|---|---|
|  | Type 5 - Limited use clothing offering particle protection. | | |
|  | Type 6 - Limited splash clothing. | | |
|  | EN1149-1 Antistatic Clothing<br>(Electrostaic dissipative protective clothing to avoid incendiary discharges). | | |
|  | 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 iron |
|  | Do not tumble dry |  | Do not dry clean |
|  | Do not use chlorine - based bleach | | |

**Product Performance Data**

To be certified as a Type 5 and Type 6 chemical protective garment, KLEENGUARD* A50 Ultra 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* A50 Ultra Coveralls is shown below.

**Limited Use Chemical Protective Clothing (Type 5&6)**

| Property | Test Method | Class/Result |
|---|---|---|
| Abrasion Resistance | EN 530 M2 | Class 2 |
| Stability to Heat | ISO 5978 | Class 2 No Blocking |
| Flex Cracking Resistance | ISO 7854 M B | Class 6 |
| Trapezoidal Tear Resistance | ISO 9073-4 | Class 1 / 2* |
| Burst Resistance | ISO 2960 | Class 1 |

| | | |
|---|---|---|
| Puncture Resistance | EN 863 | Class 1 |
| Repellence to Liquids | EN 368 | 10%NaOH Class 3<br>30%$H_2SO_4$ Class 3 |
| Resistance to Penetration by Liquid Chemicals | EN 368 | 10%NaOH Class 3<br>30%$H_2SO_4$ Class 3 |
| Resistance to Ignition | EN 1146 | PASS |
| Seam Strength | ISO 5082 | Class 3 |
| Resistance to Penetration by Liquids (spray test) | EN 468 | PASS |
| Surface Resistivity | EN1149-1 1996 | PASS |
| Determination of resistance of suits to penetration by aerosols and fine particles | prEN ISO 13982-2 | Average 6.4%<br>Ave + 2SD 19.4% |

Type 6 to prEN 13034 (1997)

Type 5 to prEN ISO 13982-1 (2000)*

**DEDICATED TO PROTECTING YOU**

?