



TECHNICAL DATA SHEET

Kem-shield KS500C- Barrier

Protective Coverall Type 3,4,5 & 6

Employing a double design enhances protection capabilities.

Protection:

- Against plentiful organic and inorganic chemicals, biohazards (Performance liquid-spray and liquid-jet tight connections).
- A high-performance shields against potential chemical hazards.

Design:

The design of the coverall incorporates elasticated hood, wrist, ankles, waist bands, and thumb loops to provide a secure fit, thereby minimizing gaps where particulates could potentially enter. Additionally, the coverall is equipped with a two-way double zipper, double self-adhesive flap closure, double cuffs, and double trouser design to improve barrier protection.

- **Zippers:** Easy to operate, allowing wearers to quickly don and doff the garment without requiring assistance.
- **Secure Seal Flap:** The adhesive flap closure creates a secure seal, preventing particulates or liquids from entering through the closure area.

Fabric Construction:

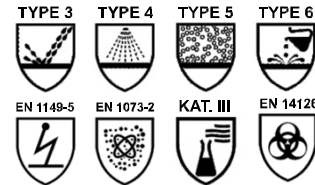
The fabric consists of a multi-layered performance barrier film integrated with polyethylene fabric, offering excellent physical strength and resistant to wear and tear.

Key Features:

- **Anti-Static:** Helps dissipate static electricity, reducing the risk of static discharge and associated hazards in sensitive environments.
- **Three-Piece Hood:** A hood constructed from three panels for optimal fit and coverage, providing additional protection for the head and neck area.
- **Soft and Comfortable:** Constructed from soft materials for enhanced wearer comfort, even during extended periods of wear.
- **Lightweight:** Designed to be lightweight, ensuring ease of movement and minimizing wearer fatigue during use.
- **Extreme Low Linting:** Minimizes the shedding of fibers, which can reduce the risk of contamination.

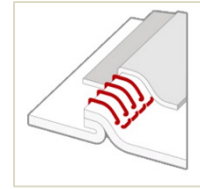
Application:

- Pharmaceutical Processing.
- Chemical Processing/Handling/Cleaning.
- General Maintenance, Cleaning, Renovation.
- General Industrial Operations.
- Pesticides, Agrochemicals Handling.
- Assembly.
- Cleaning and Degreasing.
- Waist Handling.
- Chemical/Oil Spills Cleaning.
- Oil Processing/Handling.
- Laboratories.
- Machining.
- Spray Painting.
- Paint Preparation.
- Cosmetic Formulations.
- Food Proceeding.
- Radioactive Particle.
- Biological Hazards.





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Seam Construction:

Seam tape is applied over stitched seams to enhance protection against liquid penetration effectively sealing any gaps or holes and reinforcing the seam for enhanced durability.

The tape provides the same level of protection as the fabric itself, ensuring consistent defence against potential hazards. Reinforce four line stitching. Stich length 3-4 stitch per cm with over tape.

Technical Data

Physical Performance (EN 14325)

Test	Test method	Result
Abrasion resistance	EN ISO 12947-2:2016	Class 3
Puncture resistance	EN 863:1995	Class 2
Flex cracking resistance	EN ISO7854:1997, Method B	Class 6
Flex cracking resistance at -30°C	EN ISO7854:1997, Method B	Class 6
Tensile strength	EN ISO 13934- 1:2013	Class 2
Tear resistance (trapezoidal)	EN ISO 9073-4:1997	Class 3
Seam strength	EN ISO 13935-2:2014	Class 4

Physical Performance (EN 1073-2)

Test	Test method	Result
1. Abrasion resistance	EN 530, Method 2	Class 5
2. Puncture resistance	EN 863:1995	Class 2
3. Resistance to blocking	EN 25978	Class 2
4. Tear resistance	EN ISO 9073-4:1997	Class 4
5. Seam strength	EN ISO 13935-2:2014	Class 4

Resistance to Permeation by Chemicals (Type 3 Type 4)

Chemical	Test method	Result
40% Sodium Hydroxide (Fabric)	ISO 6529:2013 Method A	Class 6
40% Sodium Hydroxide (Taped Straight Seam)	ISO 6529:2013 Method A	Class 6
30% Sulphuric Acid (Fabric)	ISO 6529:2013 Method A	Class 6
30% Sulphuric Acid (Taped Straight Seam)	ISO 6529:2013 Method A	Class 6
36%~38% Hydrochloric Acid (Fabric)	ISO 6529:2013 Method A	Class 4
36%~38% Hydrochloric Acid (Taped Straight Seam)	ISO 6529:2013 Method A	Class 5
o-Xylene (Fabric)	ISO 6529:2013 Method A	No Classification
o-Xylene (Taped Straight Seam)	ISO 6529:2013 Method A	No Classification

Repellency By Chemical Results (Type 6)

Chemical	Test method	Result
30% Sulphuric Acid	EN ISO 6530:2005	Class 3
10% Sodium Hydroxide	EN ISO 6530:2005	Class 3
o-Xylene	EN ISO 6530:2005	Class 3
Butan-1-ol	EN ISO 6530:2005	Class 3

Resistance To Ignition (EN 1073-2: 2002)

Test method	Result
EN 13274-4: 2001 Method 3	Pass
Requirement : Not continue to burn. EN ISO 6530:2005	

Electrostatic properties (EN 1149-5: 2018)

Test	Test method	Result
Surface resistance	EN 1 149- 1: 2006	Pass
EN 1 149-5: 2018: Max. $2.5 \times 10^9 \Omega$ on at least one surface		

Udyogi



Technical Data

Resistance To Penetration Of Infective Agents

Test	Test method	Result
1. Resistance to Penetration by Blood-Borne Pathogens - Test method using Phi-X174 Bacteriophage	EN 14126:2003/AC:2004 ISO 16604(2004) procedure D	Class 6
2. Resistance to Wet Microbial Penetration	EN14126:2003/AC:2004 ISO 22610(2006)	Class 6
3. Resistance to Liquid Aerosol Penetration	EN14126:2003/AC:2004 ISO/DIS 22611(2003)	Class 3
4. Resistance to Dry Microbial Penetration	EN14126:2003/AC:2004 ISO 22612(2005)	Class 3

Pictograms

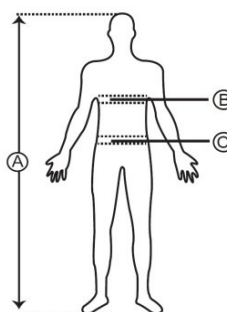
EN 13034:2005+A1:2009 - Protection against liquid chemical, light spray (type 6)	
EN ISO 13982-1:2004+A1:2010 - Protection against airborne solid particulates (type 5)	
EN 1149-5:2018 - Electrostatic charges	
EN14126:2003/AC:2004-protection against infective agents.	
EN1073-2:2002 - Protection against radioactive contamination.	
EN14605:2005+A1:2009:Protection against pressurized liquid jet.	
EN ISO 13688:2013 - Protective clothing - general requirements	

Storage:

- Store it in a cool, dry place in original packet.
- Store away from sources of direct sunlight, heat, and high temperatures.
- Shelf life is five years from date of manufacture when stored as stated above.

Disposal:

- If not contaminated, the product can be treated as common textile waste.
- If contaminated, it should be treated as hazardous waste and discarded according to local regulations.



Size Chart

Size	Height (A) cm	Chest (B) cm
S	161-165	95-99
M	167-171	95-99
L	173-177	100-104
XL	177-186	105-120
XXL	184-186	108-120
XXXL	188-192	114-125

Industry

