



SPLASHSH ELD

SPLASH-SHIELD™ SS300

Protective Clothing Type 4, 5 & 6

DESCRIPTION

The chemical protective clothing is light and has good air permeability. The sewing surface is sealed with adhesive tape help to effectively harmful dry particles and limited liquid spraying & splash.

FEATURES

High permeability, reduce the generation of thermal stress.

Fully elastic cap, ankle, and cuff, maximizes comfort and protection.

Anti-static treatment can help reduce static build-up.

APPLICATION

Biopharmaceutical, agriculture spraying, automotive industry, chemical treatment, pharmaceuticals, handing toxic power, dust-free room, electronic processing, hazardous substances, printing, light industrial clearing & maintenance, food processing, coating.

VERSION

Three-piece cap, butterfly sleeves, elastic waist, crotch triangle, four-thread sewing.

FABRIC

The outer layer is a high-quality multi-pore membrane, and the inner layer is anti-adhesive polypropylene non-woven cloth, which can provide excellent penetration protection of dust, liquid, blood-borne pathogens

Size - M, L, XL, XXL





294, B. B. Ganguly Street, 2nd Floor, Kolkata - 700 012 HAZARD TYPE

Liquid splash.

Certain limited liquid splash,

biological hazards, and solid

airborne particle protection

(Type 4, 5 & 6), Dust, Light









TEST METHOD

TYPE4 EN14605 provides protection against spraying of chemical liquids.

TYPE5 ENISO13982-1 Provides protection for harmful dry particles.

TYPE6 EN13034 Provides protection against the splashing of light chemical liquids.

EN1073-2 Provides protection for radioactive particles.

EN1149-5 fabric has antistatic property.

EN14126 provides protection against harmful infectious substances.

EN14126 biological hazard and infectious agent test was conducted.

SIZE	Height (A) CM	Chest (B) CM
S	164-170	84-92
М	170-176	92-100
L	176-182	100-108
XL	182-188	108-116
XXL	188-194	116-124
3XL	194-200	124-132



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PHYSICAL PERFORMANCE (EN 1073-2)

Test	Test method	Result
Abrasion Resistance	EN ISO 12947-2:2016	Class 1
Puncture Resistance	EN 863:1995	Class 1
Flex cracking resistance	EN ISO 7854:1997, Method B	Class 6
Flex cracking resistance at -30° C	EN ISO 7854:1997, Method B	Class 6
Tensile strength	EN ISO 13934-1:2013	Class 1
Tear resistance (Trapezoidal)	EN ISO 9073-4:1997	Class 2
Seam strength	EN ISO 13935-2:2014	Class 3

Classification of abrasion resistance: Class 1 >10rubs; Class 2 >40rubs; Class 3 >100rubs; Class 4 >400rubs; Class 5 >1000rubs; Class 6 >2000rubs. Hydrostatic head method is used for leak tightness assessment after abrasion.

Classification of puncture resistance: Class 1 >5N; Class 2 >10N; Class 3 >50N; Class 4 >100N; Class 5 >150N; Class 6 >250N.

Classification of leak tightness after compression-folding (Schildknecht) flex cracking resistance: Class 1 >500cycles; Class 2 >1250cycles; Class 3 >3000cycles; Class 4 >8000cycles; Class 5 >20000cycles; Class 6 >50000cycles. Hydrostatic head method is used for leak tightness assessment after compression-folding (Schildknecht) flex cracking.

Classification of leak tightness after compression-folding(Schildknecht) flex cracking resistance at -30° C: Class 1 >100cycles; Class 2 >200cycles; Class 3 >500cycles; Class 4 >1000cycles; Class 5 >2000cycles; Class 6 >4000cycles. Hydrostatic head method is used for leak tightness assessment after compression-folding(Schildknecht) flex cracking resistance at -30° C.

Classification of tensile strength: Class 1 >30N; Class 2 >60N; Class 3 >100N; Class 4 >250N; Class 5 >500N; Class 6 >1000N.

Classification of trapezoidal tear resistance: Class 1 >10N; Class 2 >20N; Class 3 >40N; Class 4 >60N; Class 5 >100N; Class 6 >150N.

Classification of seam strength: Class 1 >30N; Class 2 >50N; Class 3 >75N; Class 4 >125N; Class 5 >300N; Class 6 >500N.

PHYSICAL PERFORMANCE (EN 1073-2)

Test	Test method	Result
Abrasion Resistance	EN 530, Method 2	Class 1
Puncture Resistance	EN 863:1995	No classification
Resistance to blocking	EN 25978	Class 2
Tear resistance	EN ISO 9073-4:1997	Class 3
Seam strength	EN ISO 13935-2:2014	Class 3

1. Classification of abrasion resistance: Class 1 >10rubs; Class 2 >100rubs; Class 3 >500rubs; Class 4 >1000rubs; Class 5 >1500rubs; Class 6 >2000rubs. Visual inspection method is used for leak tightness assessment after abrasion

2. Classification of puncture resistance: Class 2 >10N; Class 3 >50N; Class 4 >100N (Remark: Puncture force is 9N).

3. Classification of blocking resistance: Class 1 blocking; Class 2 no blocking.

4. Classification of tear resistance: Class 1 >2N; Class 2 >10N; Class 3 >20N; Class 4 >40N; Class 5 >80N; Class 6 >150N.

5. Classification of seam strength: Class 1 >30N; Class 2 >50N; Class 3 >75N; Class 4 >125N; Class 5 >300N.

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REPELLENCY BY CHEMICAL RESULTS (TYPE 6)			
Chemical	nical Test method		
30% Sulphuric Acid (Fabric)	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	
Classification of repellency to liquids: Class 1 >70%; Class 2 >80	%; Class 3 >90%.		
Classification is according to EN 14325:2018			
RESISTANCE TO PENETRATION OF CHEMICAL RESUL	TS (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	
Classification of resistance to penetration by liquids: Class 1 <10	0%; Class 2 <5%; Class 3<1%		
Classification is according to EN 14325:2018			
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS			
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard	Result		
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010	Result		
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates	Result Pass		
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least t Whole suit test methods for type 5 Darticle inward lackage EN ISO 12082 2:2004	Pass he following requirements: L _{jmn,82/90} <30 L _{S,8/10} <15%	%	
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least t Whole suit test methods for type 5 Particle inward leakage EN ISO 13982-2:2004	Result Pass he following requirements: L _{jmn,82/90} ≤30 L _{S,8/10} ≤15%	%	
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least t Whole suit test methods for type 5 Particle inward leakage EN ISO 13982-2:2004 Type 6: EN 13034:2005+A1:2009	Result Pass he following requirements: L _{jmn,82/90} <30 L _{S,8/10} <15% Pass	%	
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PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least to Whole suit test methods for type 5 Particle inward leakage EN ISO 13982-2:2004 Type 6: EN 13034:2005+A1:2009 Protective clothing against light spray/splash proof All suits shall pass the test, i.e. the total area on any one u or equal to three times the total calibrated stain area. For this suit type, no leakage staining was observed on the	Result Pass he following requirements: L _{imn,82/90} ≤ 30 L _{s,8/10} ≤ 15% Pass ndergarment of each suit shall be less e dosimeter suit for any of the three su	% than iits tested.	
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least to Whole suit test methods for type 5 Particle inward leakage EN ISO 13982-2:2004 Type 6: EN 13034:2005+A1:2009 Protective clothing against light spray/splash proof All suits shall pass the test, i.e. the total area on any one u or equal to three times the total calibrated stain area. For this suit type, no leakage staining was observed on the Whole suit test methods for type 6	Result Pass he following requirements: L _{jmn,82/90} < 30 L _{s,8/10} < 15% Pass ndergarment of each suit shall be less e dosimeter suit for any of the three su	% than iits tested.	
PRODUCT WHOLE SUIT TEST PERFORMANCE LEVELS Standard Type 5: EN ISO 13982-1:2004/A1:2010 Protective clothing against solid particulates Type 5: Chemical Protective Clothing shall meet at least t Whole suit test methods for type 5 Particle inward leakage EN ISO 13982-2:2004 Type 6: EN 13034:2005+A1:2009 Protective clothing against light spray/splash proof All suits shall pass the test, i.e. the total area on any one u or equal to three times the total calibrated stain area. For this suit type, no leakage staining was observed on the Whole suit test methods for type 6 Low level spray test ISO 17491-4:2008 method A	Result Pass he following requirements: L _{jmn,82/90} < 30 L _{s,8/10} < 15% Pass ndergarment of each suit shall be less e dosimeter suit for any of the three su	% than iits tested.	

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Requirement: Total Inward Leakage			
Class	Mean value of inward leakage at the three sampling positions inside the suit during exercise of		Nominal protection factor
	One activity (TILE)%	All activity (TILA)%	
3	0.3	0.2	500
2	3	2	50
1	30	20	5
Whole suit test methods for EN 1073-2:2002			
Particle inward leakage EN ISO 13982-2:2004			

RESISTANCE TO PENETRATION OF INFECTIVE AGENTS

Test	Test method	Result
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
Resistance to Wet Microbial Penetration	EN 14126:2003/AC:2004 ISO 22610(2006)	Class 6
Resistance to Liquid Aerosol Penetration	EN 14126:2003/AC:2004 ISO/DIS 22611(2003)	Class 3
Resistance to Dry Microbial Penetration	EN 14126:2003/AC:2004 ISO 22612(2005)	Class 3

Classification of Resistance to Penetration by Blood-Borne Pathogens (Hydrostatic pressure at which the material passes the test): Class 1 --- 0kPa; Class 2 --- 1.75kPa; Class 3 --- 3.5kPa; Class 4 --- 7kPa; Class 5 --- 14kPa; Class 6 --- 20kPa.

Classification of Resistance to Wet Microbial Penetration(Breakthrough time, t): Class 1---t≤15min; Class 2--- 15min<t≤30min; Class 3---30min<t≤45min; Class 4--- 45min<t≤60min; Class 5--- 60min <t≤75min; Class 6--- t>75min.

Classification of Resistance to Liquid Aerosol Penetration(Penetration ratio (log)): Class 1--- 1<log≤3; Class 2--- 3<log≤5; Class 3--- log>5.

Classification of Resistance to Dry Microbial Penetration (Penetration (log cfu)): Class 1--- $2 \leq \log cfu \leq 3$; Class 2--- $1 \leq \log cfu \leq 2$; Class 3---log cfu ≤ 1 .

Classification of Resistance to Dry Microbial Penetration (Penetration (log cfu)): Class 1--- 2<log cfu≤3; Class 2--- 1<log cfu≤2; Class 3---log cfu≤1.

Testing & Classification is based on EN 14126: 2003/AC:2004.

The testing has been performed on the garment material. Seams have not been tested.

ELECTROSTATIC PROPERTIES (EN 1149-5: 2018)			
Test	Test method	Result	
Surface resistance	EN 1149-1: 2006	Pass	
EN 1149-5: 2018: Max.2.5×109Ω on at least one surface			

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