



FABRIC PERFORMANCE



SMS Fabric (back panel) SF62E (main body fabric)

Fabric Physical Properties	Test Method	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class
Abrasion Resistance	EN530	>100*	2	>10*	1	>10*	1	>100*	2	>10*	1	>10*	1	>100*	2
Flex Cracking Resistance	ISO 17854-B	>40,000*	5	>15,000*	4	>15,000*	4	>40,000*	5	>15,000*	4	>40,000*	5	>10,000*	1
Trapezoidal Tear Resistance	MD EN ISO 9073-4	44.2N	3	16.7N	1	36N	2	40.7N	3	38N	2	51N	3	40.7N	3
	CD	19.0N	1	39.0N	1	35N	2	18.6N	1	22N	2	29N	2	18.6N	1
Tensile Strength	MD ISO 13934-1	113.5N	3	82.6N	2	66.9N	2	48.3N	1	79N	2	47N	1	48.3N	1
	CD	44.5N	1	39.5N	1	38.6N	1	108.1N	3	43N	1	100N	3	108.1N	3
Resistance to Ignition	EN13274.4		PASS		PASS		PASS		PASS		PASS		PASS		PASS
Puncture Resistance	EN863	9.7N	1	8.7N	1	6.0N	1	6.95N	1	8N	1	8N	1	6.95N	1
Seam Strength	ISO 13925-2	87N	3	173.1N	4	93.5N	3	93.2N	3	81N	3	93.2N	3	88.5N	3
Burst Resistance	ISO 13938-1													184.1kPa	3
Antistaticity	EN1149-5		PASS		PASS		PASS		PASS		PASS		PASS		PASS
pH value	EN ISO 3071	6.2	PASS	6.8	PASS	5.2	PASS	6.77	PASS	6.2	PASS	6.77	PASS	6.77	PASS
Flame retardant	EN ISO 14116:2008						Index 1/0/0								

Fabric Physical Properties	Test Method	Penetration	Repeccency	Penetration	Repeccency	Penetration	Repeccency	Penetration	Repeccency	Penetration	Repeccency	Penetration	Repeccency	Penetration	Repeccency
Resistance to Chemical Penetration	EN368														
Sulphuric Acid 30%		Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3
Sodium Hydroxide 10%		Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3
iso propanol								Class 3	Class 2						
o-Xylene														Class 3	Class 2
Butan-1-ol														Class 3	Class 2

Resistance to Chemical Permeation	EN374-3	Breakthrough Time	Classification	Breakthrough Time	Classification
Sulphuric Acid 30%		>480 mins	Class 6	>480 mins	Class 6
Sodium Hydroxide 42%		>480 mins	Class 6	>480 mins	Class 6
Methanol		>480 mins	Class 6	>480 mins	Class 6
Sulphuric Acid 98%		>480 mins	Class 6	>480 mins	Class 6
Formaldehyde 10%		>480 mins	Class 6		
Acetone				>480 mins	Class 6
Acetonitrile				>480 mins	Class 6
Ammonia Gas				>10 mins	Class 1
Dimethyl Formamide				>480 mins	Class 6
Ethyl Acetate				>480 mins	Class 6
Ethylene Oxide Gas				>480 mins	Class 6
n-Hexane				>480 mins	Class 6
Hydrogen Chloride Gas				>480 mins	Class 6
Methyl Chloride Gas				>480 mins	Class 6
Nitrobenzene				>480 mins	Class 6
Tetrachloroethylene				>480 mins	Class 6
Tetrahydrofuran				>40 mins	Class 2
Toluene				>20 mins	Class 1

Whole Suit Test Performance	Test Method	Result	Test Method	Result	Test Method	Result	Test Method	Result	Test Method	Result	Test Method	Result	Test Method	Result
	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 4 Spray test Method defined by EN 14605:2005 + A1:2009 + ISO 17491-4:2008	PASS	TYPE 3 Jet test Method defined by EN 14605:2005 + A1:2009 + ISO 17491-4:2008	PASS
	TYPE 6 Low Level Spray Test Method as defined by EN 13034:2005 + A1:2009 + ISO 17491-4:2008 Method B	PASS	TYPE 6 Low Level Spray Test Method as defined by EN 13034:2005 + A1:2009 + ISO 17491-4:2008 Method B	PASS	TYPE 6 Low Level Spray Test Method as defined by EN 13034:2005 + A1:2009 + ISO 17491-4:2008 Method B	PASS	TYPE 6 Low Level Spray Test Method as defined by EN 13034:2005 + A1:2009 + ISO 17491-4:2008 Method B	PASS	TYPE 6 Low Level Spray Test Method as defined by EN 13034:2005 + A1:2009 + ISO 17491-4:2008 Method B	PASS	TYPE 5 Inward Leakage Test Method as defined by EN ISO 13982-2:2004	PASS	TYPE 4 Spray test Method defined by EN 14605:2005 + A1:2009 + ISO 17491-4:2008	PASS
	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 2	Protective clothing against radioactive materials as defined by EN1073-2:2002	Class 1

Performance of protective clothing against infective agents EN14126:2003
ISO 15602:2004 Resistance to blood and body fluids
ISO 15604:2004 Resistance to blood borne pathogens
ISO 22611:2003 Resistance to biologically contaminated aerosols
ISO 22612:2005 Resistance to biologically contaminated dust through protective clothing materials
ISO 22610:2006 Resistance to wet bacterial penetration