ALPHA SHIELD 1000

LIMITED LIFE COVERALL

Alphashield 1000 is a limited life coverall made from lightweight spun-bonded polypropylene. It is designed to protect workers from hazardous substances or sensitive products and processes from contamination.



BENEFITS

- Lightweight spun-bonded polypropylene
- Strong, durable and comfortable
- Innovative, three piece elasticated hood construction provides added comfort, durability and fit
- Elasticated ankles and wrists
- Storm flap covering zip offers reassuring protection
- Quick and easy donning/doffing with longer 2-way zip
- Elasticated back waist for enhanced comfort

EN STANDARDS

EN 13034:2005 +A1:2009	EN ISO 13982-1: 2004 + A1:2010	EN 1073-2: 2002	EN 1149-5: 2018
Type 6	Type 5	Class 1	

US TESTING DATA

Property	Test Method	Typical Value
Basis Weight	ASTM D3776	1.58 oz/yd2
Tear Resistance—Trap Tear, MD	ASTM D1117	7.9 lbf
Tear Resistance—Trap Tear, CD	ASTM D1117	12.8lbf
Breaking Strength—Grab, MD	ASTM D5034	36.1 lbf
Breaking Strength—Grab, CD	ASTM D5034	23.5lbf
Hydrostatic Head	AATCC 127	20.1 inches H20

Tested to ASTM D6413, D257 & AATCC 76.

SUITABLE APPLICATIONS

Protection against particulate hazards (Type 5) and or limited liquid splashes or sprays (Type 6) depending on the chemical toxicity and exposure conditions.

- Agriculture
- Biological Hazards
- Chemical Handling
- Clean Room
- Electronics
- Hazardous Materials Handling
- Paint Spraying
- Printing

ALPHASHIELD 1000

Limited life coverall

TECHNICAL SPECIFICATIONS

PHYSICAL PERFORMANCE		
	EN Class*	Result
EN 530 Abrasion	1 of 6	>10 cycles*[Note 1]
EN ISO 7854-B Flex Cracking	4 of 6	>15,000 cycles*[Note 1]
EN ISO 9073-4 Tear Resistance	MD = 2 of 6 XD = 2 of 6	MD = >40 N XD = >20 N
EN ISO 13934-1 Tensile Strength	MD = 1 of 6 XD = 1 of 6	MD = >60 N XD = >30 N
EN 863 Puncture Resistance	2 of 6	>10 N
EN ISO 13935-2 Seam Strength	3 of 6	>75 N

RESISTANCE TO PENETRATION BY CHEMICALS [EN 368]	
Chemical	Class (Repellency / Resistancy)
Sulphuric Acid 30%	Class 3 / Class 3
Sodium Hydroxide 10%	Class 3 / Class 2

PROTECTIVE CLOTHING - ELECTROSTATIC PROPERTIES [EN 1149-5]		
Test	Standard	Class
Surface Resistance	EN 1149-1	PASS

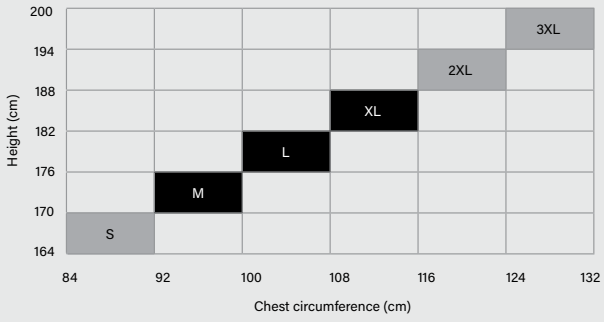
WHOLE SUIT TESTS [EN 13034 / EN ISO 13982-1]			
Test	Standard	Result	Class
Resistance To Penetration By Liquids [Type 6: Light Spray test]*[Note 2]	EN ISO 17491-4 & EN 13034 [Mod.]	PASS	-
Inward Leakage of Aerosols Of Solid Particles [Type 5]	EN ISO 13982-2	Ljmn, 82/90 ≤ 30%Ls, 8/10 ≤ 15%	PASS

PROTECTION AGAINST PARTICULATE RADIOACTIVE CONTAMINATION [EN 1073-2]		
Test	Standard	Class
Total Inward Leakage	EN 1073-2	Class 1

PROTECTION AGAINST HEAT AND FLAME [EN ISO 14116:2015]			
Test	Standard	Result	Class
Limited Flame Spread	EN ISO 14116	PASS	Indices 1/0/0
Tensile Strength*[Note 5]	ISO 13934-1	MD = >60 N*[Note 3] XD = >30 N*[Note 3]	Class 1*[Note 3]
Tear Strength*[Note 5]	ISO 13937-2	MD = >7.5 N*[Note 4] XD = NR*[Note 4]	PASS
Seam Strength	ISO 13935-2	>75 N	PASS

Note 3: The measured tensile strength was below the minimum 150N required by the standard. However it is sufficient to meet Class 1 according to the EN 13034 and EN 13937-2 standards. Note 4: The tear strength requirements of this standard specify a minimum required value of 7.5 N. When testing tear strength in XD, (i.e. tear of weft threads), No Results, [NR], were recorded, as the test samples tore parallel to the jaw of test equipment. Note 5: The end user must decide on the basis of a risk assessment, whether the tensile strength and tear strength of the material are acceptable.

SIZING Body Measurements



STORAGE AND MAINTENANCE

Alphashield 1000 is manufactured from materials made from polypropylene. These inert polymers are proven not to degraded within 10 years. Therefore a product shelf life of 10 years should be reasonable in correct storage conditions. It is advised to keep products stored in cool, dry areas where possible and away from direct heat and sunlight.

ORDERING INFORMATION

Part Number: S1BH

ALPHA SOLWAY LTD, Factory 1, Queensberry Street, Annan, DG12 5BL, UK
T: +44 (0)1461 202 452 | E: sales@globusgroup.com | www.globusgroup.com

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