VWR® ADVANCED Apparel for Critical Environments

PRODUCT SPECIFICATIONS

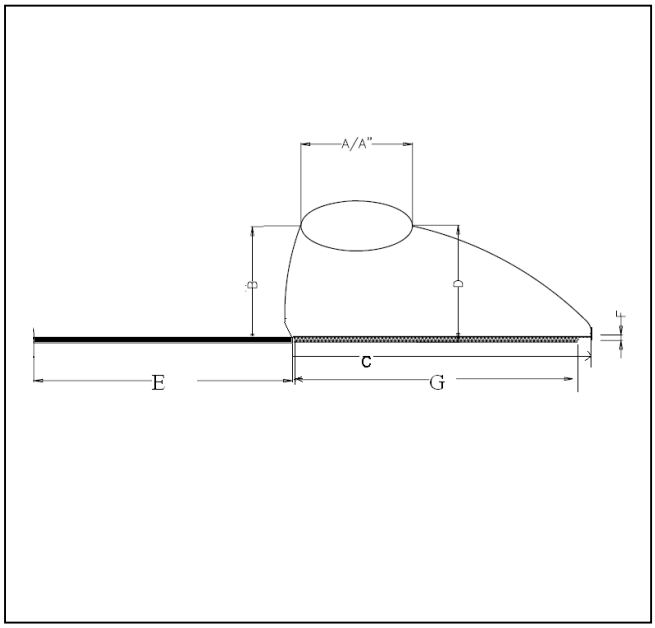
VWR® ADVANCED SPP Anti-Skid Shoe Covers (static dissipative)

VWR Advanced Anti-Skid Shoe covers are manufactured from a medium-weight spunbonded polypropylene (SPP) fabric that provides significant fluid and barrier protection. These garments exhibit excellent water vapor transmission to optimize breathability and user comfort. Coveralls are rigorously tested and manufactured in an ISO Certified facility under stringent process controls to ensure that each product meets exacting quality standards and performs to specification. Our products are lot controlled and validated through independent lab testing.

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CHARACTERISTICS:

- Made of Non-woven spunbonded laminated polypropylene 49grams/m² blue (PP30+PE19g)
- Excellent particulate barrier: >99,9% Bacterial Filtration Efficiency
- High coefficient of friction to provide excellent traction
- Low linting
- Water resistant
- With static dissipative strip
- 300 pcs/case



VWR Cat.number	Size	A	A'	B	C	D	E	F	G
113-1377	U	11,43	25,40	17,78	39,37	17,78	36,20	1,27	34,29
113-1378	XL	12,70	28,58	17,78	43,18	17,78	36,20	1,27	39,37

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MATERIAL PROPERTIES

		Result	Test Standard
PHYSICAL PROPERTIES	Particle Shedding (Helmke Drum)	Level I	IEST-RP-CC003.3
	Weight (g/m2)	51.53	ASTM D3776
	Wyzenbeek Abrasion Mass Loss	0.92%	200 Rubs Using Zero Grade Emery Paper
	Mullen Bursting Stength (PSI)	17.6	ASTM D3786
	Tensile Strength (Avg. lbs./in.)		
	Warp	26.6	ASTM D5034
	Filling	24.9	
	Trapezoid Tearing Strength (lbs./in.)		
	Lengthwise Yarns	11.7	ASTM D4533
	Widthwise Yarns	16.4	
BARRIER PROPERTIES	Bacterial Filtration Efficiency (28.3L/min, 1CFM)	>99.9%	ASTM F2101
	Water Resistance	Pass	AATCC Method 42
SKID-RESISTANCE PROPERTIES	Coefficient of Friction (COF)		
	Kinetic COF	1.69	ASTM D1894
	Static COF	0.84	
CHEMICAL RESISTANCE	Sulferic Acid (70% Concentration)	Pass	ASTM F903
	Phosphoric Acid (85% Concentration)	Pass	
	Hydrochloric Acid (37% Concentration)	Fail	
	Household bleach (100% Concentration)	Fail	

All test results provided by independent third-party testing laboratories located in USA.

WARNING: These garments and associated materials are not suitable for use in some environments containing chemicals and/or hazardous agents. It is the responsibility of the user to determine the level of risk in a particular environment and the proper personal protection equipment needed. Garments manufactured from synthetic non-woven material may generate static electricity. Garments that contain an anti-stat treatment are not intended to be used as a safety feature. These garments are not recommended to be used in a flammable and or explosive environment. Contact VWR International for garment/fabric safety data. The application of these products is out of VWR International's control. Therefore, VWR International, LLC makes no warranties, expressed or implied, and assumes no liability as to the performance of these products for a particular use.

Caution: Avoid heat and/or open flame.

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i) 49g Laminated Fabric

Item		Test method	average value standard	
			average value	tolerance for average value
Weight(g/m2)		GB/T4669-1995	49.00	+/-2
Thickness(mm)		ASTM D1777	0.25	+/- 0.02
Break Tensile propertities(N)	MD	ASTM D5034	>70	
	CD	ASTM D5034	>80	
Elongation rate(%)	MD	ASTM D5034	>40	
	CD	ASTM D5034	>40	
Trapezoid tearing strenth(N)	MD	FZ/T01085-1999	>600	
	CD	FZ/T01085-1999	>600	
Ball Burst strenth(N)		ASTM D3787	>90	
Durability(circle) Average		ASTM D4966	>40000	
Durability(circle) Min.		ASTM D4966	>20000	

ii) ESD Strip

Item	Test method	Average Value Standard
Thickness	ASTM D1777-2007	0.09 +/- 0.01
Width	ISO9073-2	20.0+/-1
Strength	ASTM D5034	>= 20
Elongation rate	ASTM D5034	>=10
Surface resistivity	ASTM D257	10^4~10^6

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QUALITY ASSURANCE CRITERIA:

AQL 1,5 per General Inspection Plan level II, single sampling (ANSI/ASQC Z1.4-1993)

A. Extraneous material
B. Dirty products
C. Thread ends loose or too long
D. Holes or tears
E. Foul odor
F. Off colour
G. Uneven material thickness
H. Hard lump
I. Fibre spinning-hook off
J. Wrong collar tag
K. Physical dimension Non-compliance
L. Stickes is not correct
M. Cloth surface applied wrongly

QUALITY ASSURANCE CRITERIA FOR MAJOR DEFECTS:

AQL 2.5 per General Inspection Plan Level II, single sampling (ANSI/ASQC Z1.4-1993)

A. Sewing sundries
B. Elastic band end exposed
C. Sewing end falling-off
D. Jumping stitch
E. Missing stitch
F. Less than 8 stiches per inch
G. Unwanted folds
H. Elastic tightness non-consistent