



VWR® Protection Apparel PRODUCT SPECIFICATIONS

VWR Maximum Protection Covers

- Superior Fluid and Particulate Barrier: >99.9% Bacterial Filtration Efficiency
- Lowest Level of Particle Shedding: Level I Helmke Drum Classification
- Light Chemical Splash Resistance
- Maximum Tear Strength

VWR Maximum Protection Covers are the cleanest and most durable within the entire VWR Protection line of apparel. Made with a specially formulated breathable microporous fabric, these covers have been engineered to optimize barrier protection. Covers 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 validated through independent lab testing.



Cover Dimensions

Size	Universal	Universal with Elastic Bottom
Width (A)	50"	58"
Depth (B)	28"	26"
Height (C)	74"	54"
Elastic Bottom Perimeter, Relaxed (D)	—	32"
Elastic Bottom Perimeter, Stretched (D)	—	84"

VWR Maximum Protection Covers

Size	Cat. No.	Case of
White		
Universal	414004-458	10
Universal with Elastic Bottom	414004-459	10

To order, visit vwr.com or call your VWR Sales Representative today.

Material Properties for VWR® Maximum Protection Covers

	Test Item	Result	Test Standard	Test Description
PHYSICAL PROPERTIES	Particle Shedding (Helmke Drum)	Level I	IEST-RP-CC003.3	Garments are tumbled in a stainless steel drum for 10 minutes. Particles are then counted with a laser particle counter.
	Weight (g/m ²)	63	ASTM D3776	Measurement of fabric mass per unit area (weight).
	Thickness (mm)	0.22	ASTM D1777	Measurement of fabric thickness.
	Tensile Strength (Avg. lbs./in.)			
	Warp	25.2	ASTM D5034	Covers the grab and modified grab test procedures for determining the breaking strength and elongation of textile fabrics. Provisions are made for wet testing.
	Filling	29.4		
	Tearing Strength (Avg. lbs./in.)			
	Lengthwise Yarns	4.8	ASTM D2261	Measurement of the tearing strength of textile fabrics by the tongue (single rip) procedure using a recording constant-rate-of-extension-type (CRE) tensile testing machine.
	Widthwise Yarns	5.7		

BARRIER PROPERTIES	Bacterial Filtration Efficiency*	>99.9%	ASTM F2101	Measurement of the filtration efficiency of the fabric using a challenge organism of <i>Staphylococcus aureus</i> .
	Water Resistance	Pass	AATCC Method 42	Measures the degree to which the material is a barrier to liquids.
	Synthetic Blood Penetration Resistance	Pass	ASTM F1670-08	Measures the resistance of chemical protective clothing materials to penetration by liquids.

CHEMICAL RESISTANCE	Sulfuric Acid (70% Concentration)	Pass	ASTM F903	Measures the barrier effectiveness of materials used for protective clothing, and specimens from finished items of protective clothing (such as seamed and other discontinuous regions), against liquids.
	Phosphoric Acid (85% Concentration)	Pass		
	Hydrochloric Acid (37% Concentration)	Fail		
	Household Bleach (100% Concentration)	Pass		

*Control Average: 2928 CFU.

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-static 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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