

## VWR Basic Protection SMS Lab Coats

- Multilayer SMS Material
- Light Fluid/Particulate Barrier
- Excellent Breathability

VWR Basic Protection SMS Lab Coats are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable. These static-dissipative garments act as a fluid and particulate barrier and provide light chemical splash resistance. Lab coats 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.



### Lab Coat Dimensions

Size	S	M	L	XL	2X	3X	4X
<b>Body (A)</b>	36¾"	39½"	40"	42¾"	43½"	44½"	46½"
<b>Chest (B)</b>	24¼"	25¼"	27"	27¾"	29½"	30¾"	31½"
<b>Sleeve (C)</b>	30"	30¼"	32½"	33"	37½"	38¼"	39¼"

### VWR Basic Protection SMS Lab Coats

Size	Cat. No.	Case of
<b>White</b>		
Small	414004-366	30
Medium	414004-362	30
Large	414004-363	30
X-Large	414004-361	30
2X-Large	414004-364	30
3X-Large	414004-365	30
4X-Large	414004-367	30
<b>Blue</b>		
Small	414004-359	30
Medium	414004-358	30
Large	414004-355	30
X-Large	414004-356	30
2X-Large	414004-357	30
3X-Large	414004-360	30

To order, visit [vwr.com](http://vwr.com) or call your VWR Sales Representative today.

# Material Properties for VWR® Basic Protection SMS Lab Coats

	Test Item	Result	Test Standard	Test Description
<b>PHYSICAL PROPERTIES</b>	Particle Shedding (Helmke Drum)	Level II	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 <sup>2</sup> )	50.45	ASTM D3776	Measurement of fabric mass per unit area (weight).
	Ball Bursting Strength (Avg. lbs./in.)	14.2	ASTM D6797	A steel ball is forced through the fabric with a constant-rate-of-extension tensile tester to determine fabric strength.
	Tensile Strength (Avg. lbs./in.)			
	Warp	13.0	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	16.1		
	Tearing Strength (Avg. lbs./in.)			
	Lengthwise Yarns	3.1	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	2.6		

<b>BARRIER PROPERTIES</b>	Bacterial Filtration Efficiency*	90%	ASTM F2101	Measurement of the filtration efficiency of the fabric using a challenge organism of <i>Staphylococcus aureus</i> .
	Water Resistance (Avg. g)	16.7	AATCC Method 42	Measures the degree to which the material is a barrier to liquids.

<b>COMFORT PROPERTIES</b>	Water Vapor Transmission Rate (Avg. g/m <sup>2</sup> /24 hrs.) <sup>†</sup>	965	ASTM E96	Measurement of the rate at which the fabric transfers water vapor under appropriate conditions.
	Air Permeability (cu. ft./min./sq. ft.)	95.3	ASTM D737	Measurement of air permeability to indicate breathability of the fabric.

\*Control Average: 2233 CFU.

<sup>†</sup>Procedure B, Water Method, 73.4°F 50% Rh; Air Gap: ¼".

## 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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