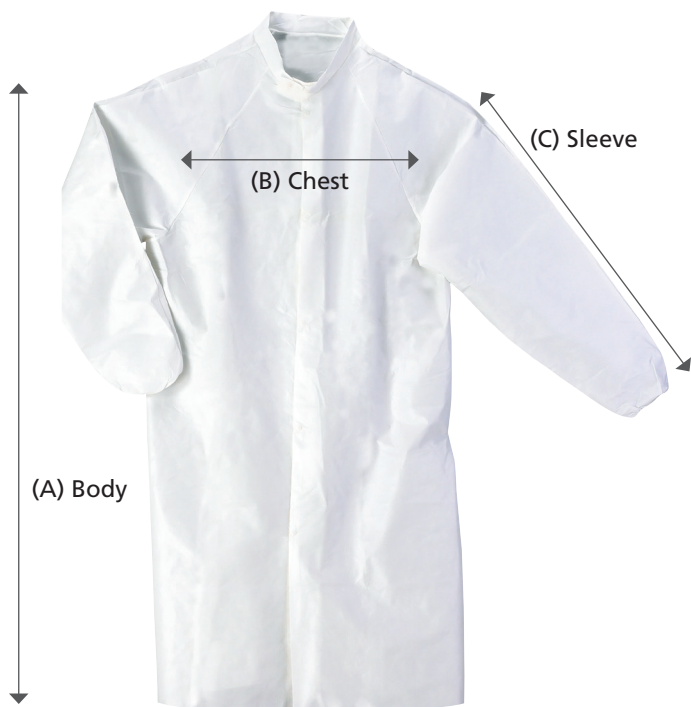


### VWR Basic Protection SMS Frocks

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

VWR Basic Protection SMS Frocks 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. Frocks 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.



#### Frock Dimensions

Size	S	M	L	XL	2X	3X
<b>Body (A)</b>	40½"	42½"	43½"	46"	47½"	51½"
<b>Chest (B)</b>	21¾"	22¾"	23½"	24¾"	26½"	29"
<b>Sleeve (C)</b>	33½"	34½"	35½"	36½"	37½"	40"

#### VWR Basic Protection SMS Frocks

Size	Cat. No.	Case of
<b>White</b>		
Small	414004-392	30
Medium	414004-389	30
Large	414004-388	30
X-Large	414004-386	30
2X-Large	414004-385	30
3X-Large	414004-387	30
<b>Blue</b>		
Medium	414004-390	30
Large	414004-402	30
X-Large	414004-403	30
2X-Large	414004-401	30
3X-Large	414004-391	30

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

# Material Properties for VWR® Basic Protection SMS Frocks

	Test Item	Result	Test Standard	Test Description
PHYSICAL PROPERTIES	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		
BARRIER PROPERTIES	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.
COMFORT PROPERTIES	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-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.



Prices, product appearance and specifications are current at the time of printing, subject to change without notice. Availability for certain products may be limited by federal, state, provincial or local licensing requirements. VWR makes no claims or warranties concerning sustainable/green products. Any claims concerning sustainable/green products are the sole claims of the manufacturer and not those of VWR International, LLC. All prices are in U.S. dollars unless otherwise noted. Offers valid in USA and Canada, void where prohibited by law or company policy, while supplies last. Visit [vwr.com](http://vwr.com) to view our privacy policy and additional disclaimers.

VWR, forms of VWR, and the VWR logo and/or design are either registered trademarks ®, trademarks ™, or service marks ™ of VWR International, LLC in the United States and/or other countries. All other marks referenced herein are registered trademarks, trademarks or service marks of their respective owner(s). For a complete list of trademark owners please visit [vwr.com](http://vwr.com).

©2010 VWR International, LLC. All rights reserved.

0310 REV2