

# Technical data sheet



Coveralls

## VWR® ADVANCED PROTECTION COVERALLS, LAB COATS, AND FROCKS

- Durable fabric with excellent breathability and water vapor transmission rate
- Significant fluid and particulate barrier: 99.9% bacterial filtration efficiency
- Particle shedding: Level II Helmke Drum Classification
- Soft, cloth-like fabric
- Appropriate for ISO 6 and higher

### Coverall dimensions

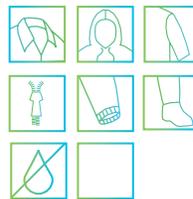
Size	S	M	L	XL	2X	3X	4X	5X	7X
Body (1)	36½"	37½"	38¾"	40"	40½"	43"	43"	43½"	44"
Chest (2)	23"	24¼"	25"	27"	29¾"	32"	32½"	33½"	40½"
Sleeve (3)	32½"	34"	34"	36½"	37"	38"	41"	40½"	42"
Leg (4)	28"	28½"	29½"	30"	31"	32"	32½"	33"	34"

### Material Properties

Test Item	Result	Test Standard
<b>Physical Properties</b>		
Particle Shedding (Helmke Drum)	Level II	TEST-RP-CC003.3
Weight (g/m <sup>2</sup> )	56	ASTM D3776
Thickness (mm)	0.21	ASTM D1777
<b>Tensile Strength (Avg. lbs./in.)</b>		
Warp	21.7	
Filling	25.0	ASTM D5034
<b>Tearing Strength (Avg. lbs./in.)</b>		
Lengthwise Yarns	3.4	
Widthwise Yarns	4.8	ASTM D2261
<b>Barrier Properties</b>		
Bacterial Filtration Efficiency*	99.9%	ASTM F2101
Water Resistance	Pass	AATCC Method 42
Synthetic Blood Penetration Resistance	Pass	ASTM F1670-08
<b>Comfort Properties</b>		
Water Vapor Transmission Rate (Avg. g/m <sup>2</sup> /24 hrs.)†	777	ASTM E96
Delta P Breathability (mmH <sub>2</sub> O/cm <sub>2</sub> )	>102	MIL-M-36954C
Air Permeability (cu. ft./min./sq. ft.)	0.06	ASTM D737
<b>Chemical Resistance</b>		
Sulfuric Acid (70% Concentration)	Pass	ASTM F903
Phosphoric Acid (85% Concentration)	Pass	
Hydrochloric Acid (37% Concentration)	Fail	
Household Bleach (100% Concentration)	Fail	

\*Control Average: 2928 CFU. †Procedure B, Water Method, 73.4°F 50% Rh; Air Gap: ¼".

## VWR® ADVANCED PROTECTION COVERALLS



Size	Cat. No.	Case of
<b>White</b>		
Small	414004-298	25
Medium	414004-297	25
Large	414004-296	25
X-Large	414004-293	25
2X-Large	414004-291	25
3X-Large	414004-292	25
4X-Large	414004-295	25
5X-Large	414004-294	25
7X-Large	89234-864	25
<b>White, Hooded, with Attached Fluid-Impervious Boot Covers</b>		
Large	414004-304	25
X-Large	414004-299	25
2X-Large	414004-300	25
3X-Large	414004-301	25
4X-Large	414004-303	25
5X-Large	89234-866	25
7X-Large	89234-868	25