

TECHNICAL DATA SHEET

VWR® Maximum Protection Non-Skid High-Top Boot Covers

NON-SKID HIGH-TOP BOOT COVERS

- Non-Skid Sole Provides Maximum Traction on Wet and Smooth Surfaces
- Superior Coefficient of Friction
- Excellent Fluid and Particulate Barrier: >99.9% Bacterial Filtration Efficiency
- Breathable to Ensure User Comfort
- Soft, Cloth-Like Fabric with Maximum Tear Strength

VWR Maximum Protection Non-Skid High-Top Boot Covers are the cleanest and most durable within the entire VWR Protection line of apparel. These boot covers have been engineered to optimize skid-resistance, barrier protection, cleanliness, and comfort. Boot 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 lot controlled and continuously validated through independent lab testing.



Standard Boot Cover Dimensions

Size	M	Universal	XL
Length (A)	11¼"	14"	15"
Height (B)	17"	17½"	18"
Top, Relaxed (C)	5¼"	5¾"	6"
Top, Stretched (C)	9"	9½"	11½"
Ankle, Relaxed (D)	6"	6½"	6¾"
Ankle, Stretched (D)	9¾"	11"	12½"
Sole Width (E)	4¼"	4½"	4¾"



Ankle Tie Boot Cover Dimensions

Size	M	Universal	XL
Length (A)	11¼"	14"	15"
Height (B)	18"	18½"	19"
Top, Relaxed (C)	4½"	5¼"	5"
Top, Stretched (C)	9"	11½"	12½"
Tie Length (D)	17"	17"	17"
Sole Width (E)	4¼"	4½"	4¾"

VWR MAXIMUM PROTECTION NON-SKID HIGH-TOP BOOT COVERS

Size	Case of	Cat. No.
White		
Medium	100 Pair	414004-417
Universal	100 Pair	414004-414
X-Large	100 Pair	414004-415
White with Ankle Ties		
Medium	100 Pair	414004-416
Universal	100 Pair	414004-418
X-Large	100 Pair	414004-419

To order, visit [avantorsciences.com](https://www.avantorsciences.com) or call your VWR Sales Representative today.

MATERIAL PROPERTIES

Physical properties

Test Item	Result	Test Standard
Particle Shedding (Helmke Drum)	Level I	IENT-RP-CC003.3
Weight (g/m²)	63	ASTM D3776
Thickness (mm)	0.22	ASTM D1777
Tensile Strength (Avg. lbs./in.)		
Warp	25.2	ASTM D5034
Filling	29.4	
Tearing Strength (Avg. lbs./in.)		
Lengthwise Yarns	4.8	ASTM D2261
Widthwise Yarns	5.7	

Barrier properties

Test Item	Result	Test Standard
Bacterial Filtration Efficiency*	>99.9%	ASTM F2101
Water Resistance	Pass	AATCC Method 42
Synthetic Blood Penetration Resistance	Pass	ASTM F1670-08

Skid-Resistance properties

Test Item	Result	Test Standard
Coefficient of Friction (COF)		
Kinetic COF	3.54	ASTM D1894
Static COF	2.88	

Chemical resistance

Test Item	Result	Test Standard
Sulfuric Acid (70% Concentration)	Pass	ASTM F903
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-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 Avantor for garment/fabric safety data. The application of these products is out of Avantor's control. Therefore, Avantor 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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