

Critical Cover

UltraGripTM Shoe & Boot Covers

Dedicated to the protection of
people, products and environmentsTM

AlphaProTech
INCORPORATED



Critical Cover® UltraGrip™ Shoe & Boot Covers

Ultimate in Slip and Fall Protection

Features and Benefits: Our high performance, anti-skid UltraGrip™ sole offers the ultimate in slip and fall protection on wet and dry floors. Our proprietary sole material is also extremely clean, durable and strong enough to withstand even the most abrasive floor surfaces.

The BarrierTech® material used for the upper portion of our UltraGrip shoe covers provides particle holdout and protection from fluids and light chemical splash. UltraGrip is suitable for use in a Controlled Environment.

For our boot covers, we utilize our proprietary Microbreathe™ material for the upper portion of the boot cover. Microbreathe is a soft, strong, and flexible material with a high vapor transmission rate for all day comfort. It also provides excellent barrier protection and particle holdout and is the preferred choice for Controlled Environments. Our UltraGrip boot covers are also static dissipative for those applications where electro-static dissipative (ESD) protection is required.

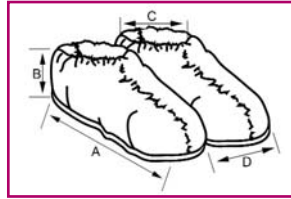
BarrierTech® Shoe Covers

BarrierTech® UltraGrip™ Shoe Covers

White	Size	Thread Colors
SH-E1315-BH	M	Yellow
SH-E1316-BH	L	Orange
SH-E1312-BH	Univ.	White
SH-E1313-BH	XL	Black

Blue	Size	Thread Colors
SH-M1315-BH	M	Yellow
SH-M1316-BH	L	Orange
SH-M1312-BH	Univ.	White
SH-M1313-BH	XL	Black

Anti-skid sole, serged seams
100 pair/case



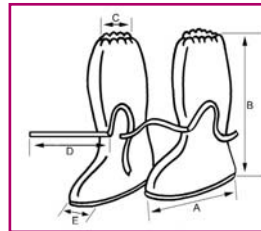
Dimensions	Size	Length (A)	Height (B)	Top Relaxed (C)	Top Stretched (C)	Sole Width (D)
	M	11 1/2"	5"	4"	8 3/4"	4 1/4"
	L	12 3/4"	5"	4 1/4"	9 1/4"	4 1/2"
	Univ.	14 1/4"	5"	4 1/2"	11"	4 1/2"
	XL	15"	5 3/4"	5"	11 3/4"	4 3/4"

Microbreathe™ Boot Covers

Microbreathe™ UltraGrip™ High Top Boot Covers w/Ankle Ties

White	Size	Thread Colors
BT-A1315-B	M	Yellow
BT-A1312-B	Univ	White
BT-A1313-B	XL	Black

UltraGrip™ anti-skid sole,
elastic top, ankle ties,
serged seams
100 pair/case



Dimensions	Size	Length (A)	Height (B)	Top Relaxed (C)	Top Stretched (C)	Tie Length (D)	Sole Width (E)
	M	11 1/4"	18"	4 1/2"	9"	17"	4 1/4"
	Univ	14"	18 1/2"	5 1/4"	9 1/2"	17"	4 1/2"
	XL	15"	19"	5"	11 1/2"	17"	4 3/4"

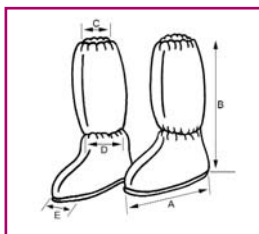
Critical Cover® UltraGrip™ Shoe & Boot Covers

Microbreathe™ Boot Covers

Microbreathe™ UltraGrip™ High Top Boot Covers w/Elastic Ankle

White	Size	Thread Colors
BT-A1815-B	M	Yellow
BT-A1812-B	Univ	White
BT-A1813-B	XL	Black

UltraGrip™ anti-skid sole, elastic top and ankle, serged seams 100 pair/case

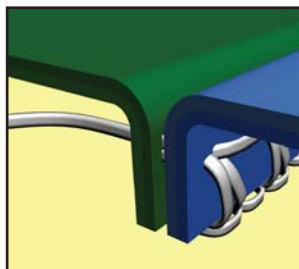


Dimensions	Size	Length (A)	Height (B)	Top (Relaxed) (C)	Top (Stretched) (C)	Ankle (Relaxed) (D)	Ankle (Stretched) (D)	Sole Width (E)
	M	11 ¼"	17"	5 ¼"	9"	6"	9 ¾"	4 ¼"
Univ	13 ½"	17 ½"	5 ¾"	9 ½"	6 ½"	11"	4 ½"	
XL	15"	18"	6"	11 ½"	6 ¾"	12 ½"	4 ¾"	

Seam Construction

Serged Seams

This seam is produced when the threads are interlocked around the material edges for a strong stress-resistant seam.



Packaging Perfection

Designed to Limit Contamination Entering Your Environment

- Packaged in a primary vacuum heat sealed bag, carton liner and outer corrugated carton to prevent cross contamination and contamination migration from one environment to another.
- All open seams on shipping containers are tape sealed to further prevent contamination.
- Four-sided carton labeling allows easy identification and inventory management.



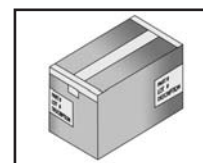
Primary Bag, heat sealed



Carton Liner



Open carton with taped down liner



Sealed carton with two corner labels

Critical Cover® UltraGrip™ Shoe & Boot Covers

Physical Properties

Standard Applied	Test Method	BarrierTech®	Microbreathe™
Ball Burst Strength	ASTM D3787 Puncture Strength	Average 20 lb	Average 26 lb
BFE (Bacterial Filtration Efficiency)	MIL-M-36954C	99.90%	99.90%
COF (Coefficient of Friction)	ASTM D1894 Static Kinetic	0.691 0.710	N/A
Delta P (Differential Pressure)	MIL-M-36954C	mm H ₂ O/cm sq >119	mm H ₂ O/cm sq >122
ESD (Electrostatic Decay Rate)	Fed. Std. 101C Method 4046 ASTM D257	N/T	Pass
Grab Tensile Properties	ASTM D751 MD-Tensile Strength TD-Tensile Strength	Average 19 lb 30 lb	Average 47 lb 31 lb
Helmke Drum	IEST-RP-CC003.3	Category I	Category I
Mass/Unit Area	ASTM D751	Average 2.57 oz/sq yd	Average 1.90 oz/sq yd
Mullen Burst Strength	ASTM D3786 (Modified)	90 psi	77 psi
Puncture Propagation Tear Resistance	ASTM D2582 MD-Tensile Strength TD-Tensile Strength	Average 8 lb 6 lb	Average 8 lb 7 lb
Trapezoid Tearing Strength	ASTM D4533 MD-Tensile Strength TD-Tensile Strength	Average 9 lb 12 lb	Average 14 lb 8 lb
Water Resistance Impact Penetration	AATCC Method 42	No Visible Penetration	No Visible Penetration
Water Vapor Transmission	ASTM E96	Average 0.017 oz/yd ² /hr	Average 0.592 oz/yd ² /hr

MD - Machine Direction

TD - Transverse Direction

NA - Not Applicable

NT- Not Tested

UltraGrip™ Sole Physical Properties

Standard Applied	Test Method	Results
Coefficient of Friction	ASTM 1894	>1
Electrostatic Decay Rate	Fed. Std. 101C Method 4046 ASTM D257	Pass
Surface Resistivity	ASTM D257 Inner Outer	4.84E+09 ohms/sq in 4.50E+09 ohms/sq in
Taber Abrasion Resistance	ASTM D3884	1268 cycles

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Microbreathe™ & BarrierTech®
Chemical Penetration Test
Test Method Used: ASTM F903

Chemical Name	Phase	BarrierTech®	Microbreathe™
Bleach - Household	L	N/A	100%
Diesel Fuel	L	Pass	100%
Hydrofluoric Acid	L	N/A	10%
Hydrogen Peroxide	L	N/A	30%
Isocyanate Spray Paint Hardener	L	N/A	100%
Isocyanate Spray Paint Reducer	L	N/A	100%
Muriatic Acid (HCl)	L	N/A	Fail, <5 min.
Phosphoric Acid	L	N/A	85%
Round Up*	L	Pass	100%
Sodium Hydroxide	L	N/A	50%
Sulfuric Acid	L	N/A	Fail, 50 min.
Toluene	L	N/A	Fail, 40 min.
Vespene II SE*	L	N/A	100%
SporKlenz*	L	N/A	100%
40 wt. Motor Oil	L	Pass	Pass

Chemical Permeation Test
Test Method: ASTM F739-99

ASTM F1001 Battery of Chemicals	Phase	BarrierTech® Normalized Breakthrough (Time in Mins.)
Acetone	L	< 3
Acetonitrile	L	< 15
Ammonia	G	< 3
1,3-Butane	G	< 3
Carbon Disulfide	L	< 3
Chlorine	G	< 3
Dichloromethane	L	< 3
Diethylamine	L	< 3
Dimethylformamide	L	< 3
Ethyl Acetate	L	< 3
Ethylene Oxide	G	< 3
Hexane	L	< 3
Hydrogen Chloride	G	< 15
Methanol	L	< 3
Methyl Chloride	G	< 3
Nitrobenzene	L	< 3
Sodium Hydroxide	L	> 480
Sulfuric Acid	L	30
Tetrachloroethylene	L	< 3
Tetrahydrofuran	L	< 3
Toluene	L	< 3

Other Chemicals Tested for Permeation	Phase	BarrierTech® Normalized Breakthrough (Time in Mins.)
Acetic Acid	L	< 3
Chloroacetic Acid	L	> 480
Chromic Acid	L	> 480
Ethanol	L	< 3
Ethylene Glyco	L	> 480
Formaldehyde	L	< 3
Glutaraldehyde	L	> 480
Hydrochloric Acid	L	45
Hydrofluoric Acid	L	> 480
Hydrogen Peroxide	L	> 480
Isocyanate	L	< 3
Isocyanate	L	< 3
Isopropyl Alcohol	L	< 3
Muriatic Acid	L	> 450
Phosphoric Acid	L	> 480
Potassium Cyanide	L	60
Sodium Chloride	L	> 480

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Notes:

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WARNING: These garments and associated materials are not suitable for use in some environments containing certain 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. If you have any questions, contact your distributor or Alpha Pro Tech for garment/fabric safety data. The use of this product is out of Alpha Pro Tech's control. Therefore, Alpha Pro Tech 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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**Alpha Pro Tech is committed to protecting people,
products, manufacturing and healthcare environments to
optimize process effectiveness and customer profitability.**

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E-mail: sales@alphaprotech.com

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