

**Critical Cover**

# UltraGrip<sup>TM</sup> Shoe & Boot Covers

Dedicated to the protection of  
people, products and environments<sup>TM</sup>

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.

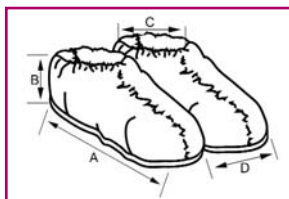
### BarrierTech® Shoe Covers

#### 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



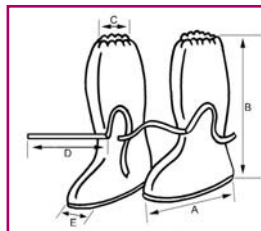
Dimensions	Size	Length (A)	Height (B)	Top Relaxed (C)	Top Stretched (C)	Sole Width (D)
	M	11 1/2"	5"	4"	8 3/4"	4 1/4"
	L	12 3/4"	5"	4 1/4"	9 1/4"	4 1/2"
	Univ.	14 1/4"	5"	4 1/2"	11"	4 1/2"
	XL	15"	5 3/4"	5"	11 3/4"	4 3/4"

### 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"

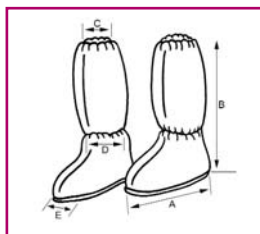
# Critical Cover® UltraGrip™ Shoe & Boot Covers

## 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

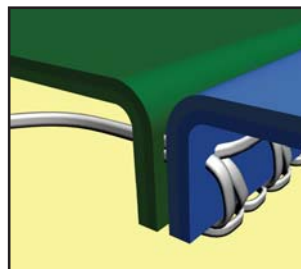


Dimensions	Size	Length (A)	Height (B)	Top (Relaxed) (C)	Top (Stretched) (C)	Ankle (Relaxed) (D)	Ankle (Stretched) (D)	Sole Width (E)
	M	11 ¼"	17"	5 ¼"	9"	6"	9 ¾"	4 ¼"
Univ	13 ½"	17 ½"	5 ¾"	9 ½"	6 ½"	11"	4 ½"	
XL	15"	18"	6"	11 ½"	6 ¾"	12 ½"	4 ¾"	

### 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.



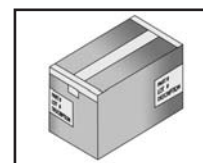
Primary Bag,  
heat sealed



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 <sub>2</sub> O/cm sq >119	mm H <sub>2</sub> 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 (unwashed)	IEST-RP-CC003.3	Particles/cubic ft. @ 0.5 micron 62	Particles/cubic ft. @ 0.5 micron 312
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 <sup>2</sup> /hr	Average 0.592 oz/yd <sup>2</sup> /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

# Critical Cover® UltraGrip™ Shoe & Boot Covers

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

# Critical Cover® UltraGrip™ Shoe & Boot Covers

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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Notes:

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**Alpha Pro Tech is committed to protecting people,  
products, manufacturing and healthcare environments to  
optimize process effectiveness and customer profitability.**

**Ordering Information:** To place an order, receive a sample or obtain more information,  
please contact our Customer Service Department toll-free from  
9:00 a.m. to 5:00 p.m. Eastern Time at:

Phone: 800-749-1363

Fax: 905-479-8703

E-mail: [sales@alphaprotech.com](mailto:sales@alphaprotech.com)

**International customers please use the following contact information:**

Phone: 520-281-0127 Ext. 201

Fax: 520-281-0235

E-mail: [ccrespo@alphaprotech.com](mailto:ccrespo@alphaprotech.com)

**Visit us at: [www.alphaprotech.com](http://www.alphaprotech.com)**

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