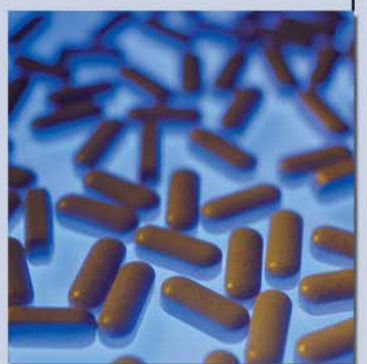


***Critical Cover***<sup>®</sup>

# Microbreathe<sup>™</sup> Garments

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

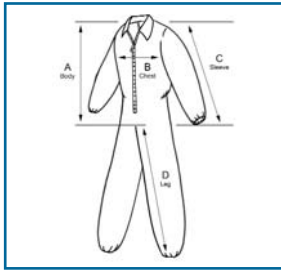
AlphaProTech  
INCORPORATED



# Critical Cover<sup>®</sup> Microbreathe<sup>™</sup> Garments

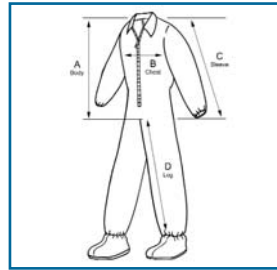
## Outstanding Protection and Comfort Advantages

**Features & Benefits:** Workers choose Microbreathe<sup>™</sup> garments for their comfort benefits and superior barrier protection capabilities. The strong, flexible Microbreathe fabric is impervious to liquids, yet exhibits an excellent vapor transmission rate to let perspiration pass through the fabric. The low particulate levels and static dissipative characteristics help protect sensitive products and processes. The filtration efficiency is 99.9% at 0.3 microns assuring that contamination from the wearer is not passing through the material into your critical environment. All garments feature serged seams unless otherwise noted.



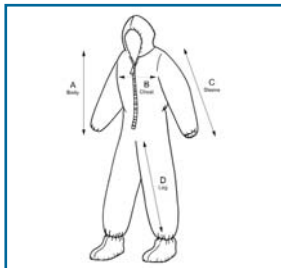
Elastic wrist, ankle & back  
25/case

White	Size
CV-04032-1	S
CV-04032-2	M
CV-04032-3	L
CV-04032-4	XL
CV-04032-5	2X
CV-04032-6	3X
CV-04032-7	4X
CV-04032-8	5X



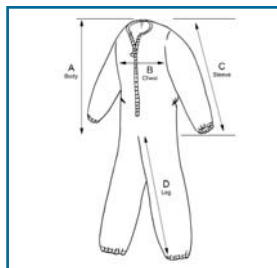
Elastic wrist, ankle & back,  
UltraGrip<sup>™</sup> boots  
25/case

White	Size
CV-04522-2	M
CV-04522-3	L
CV-04522-4	XL
CV-04522-5	2X
CV-04522-6	3X



Elastic hood, wrist, ankle &  
back, AquaTrak<sup>®</sup> boots  
25/case

White	Size
CV-04CB2-2	M
CV-04CB2-3	L
CV-04CB2-4	XL
CV-04CB2-5	2X
CV-04CB2-6	3X



Elastic wrist, ankle & back,  
bound seams  
white, 25/case

White	Size
CV-04632-1	S
CV-04632-2	M
CV-04632-3	L
CV-04632-4	XL
CV-04632-5	2X
CV-04632-6	3X
CV-04632-7	4X
CV-04632-8	5X

Dimensions	Size	Body (A)	Chest (B)	Sleeve (C)	Leg (D)
	S	36 1/2"	23"	32 1/2"	28"
	M	37 1/2"	24 1/4"	34"	28 1/2"
	L	38 3/4"	25"	34"	29 1/2"
	XL	40"	27"	36 1/2"	30"
	2X	40 1/2"	29 3/4"	37"	31"
	3X	43"	32"	38"	32"
	4X	43"	32 1/2"	41"	32 1/2"
	5X	43 1/2"	33 1/2"	42"	33"



# Critical Cover<sup>®</sup> Microbreathe<sup>™</sup> Garments

## Lab Coats - Elastic Wrist

White	Size
LC-52621-1	S
LC-52621-2	M
LC-52621-3	L
LC-52621-4	XL
LC-52621-5	2X
LC-52621-6	3X
LC-52621-9	4X

Tapered collar, elastic wrist,  
3 pockets, snap close  
25/case



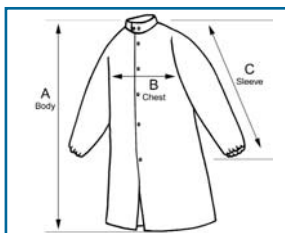
Dimensions	Size	Body (A)	Chest (B)	Sleeve (C)
	S	36 3/4"	24 1/4"	30"
	M	39 1/2"	25 1/4"	30 1/4"
	L	40"	27"	32 1/2"
	XL	42 3/4"	27 3/4"	33"
	2X	43 1/2"	29 1/2"	37 1/2"
	3X	44 1/4"	30 3/4"	38 1/4"
	4X	46 1/2"	31 1/2"	39 1/4"



## Frocks - Snap Close

White	Size
FK-52121-1	S
FK-52121-2	M
FK-52121-3	L
FK-52121-4	XL
FK-52121-5	2X
FK-52121-6	3X
FK-52121-7	4X
FK-52121-8	5X

Raglan sleeve, elastic wrist,  
snap collar, snap close  
25/case



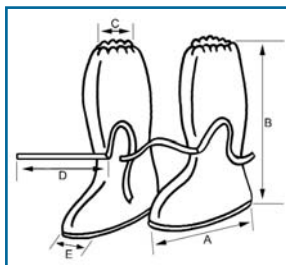
Dimensions	Size	Body (A)	Chest (B)	Sleeve (C)
	S	40 1/2"	21 3/4"	33 1/2"
	M	42 1/2"	22 3/4"	34 1/2"
	L	43 1/2"	23 1/2"	35 1/2"
	XL	46"	24 3/4"	36 1/2"
	2X	47 1/2"	26 1/2"	37 1/2"
	3X	51 1/2"	29"	40"
	4X	52 1/2"	29 1/2"	41"
5X	53 1/2"	30"	42"	



## Microbreathe<sup>™</sup> UltraGrip<sup>™</sup> 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<sup>™</sup> anti-skid sole,  
elastic top, ankle ties,  
serged seams  
100 pair/case



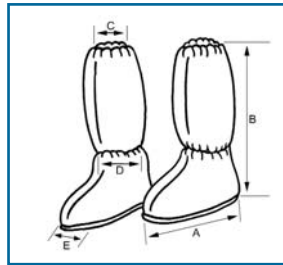
Dimensions	Size	Length (A)	Height (B)	Top (Relaxed) (C)	Top (Stretched) (C)	Tie Length (D)	Sole Width (E)
	M	11 1/4"	18"	4 1/2"	9"	17"	4 1/4"
	Univ	14"	18 1/2"	5 1/4"	9 1/2"	17"	4 1/2"
	XL	15"	19"	5"	11 1/2"	17"	4 3/4"

# Critical Cover<sup>®</sup> Microbreathe<sup>™</sup> Garments

## Microbreathe<sup>™</sup> UltraGrip<sup>™</sup> 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<sup>™</sup> anti-skid sole,  
elastic top and ankle,  
serged seams  
100 pair/case



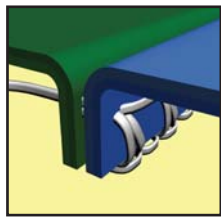
Dimensions	Size	Length (A)	Height (B)	Top (Relaxed) (C)	Top (Stretched) (C)	Ankle (Relaxed) (D)	Ankle (Stretched) (D)	Sole Width (E)
	M	11 1/4"	17"	5 1/4"	9"	6"	9 3/4"	4 1/4"
Univ	14"	17 1/2"	5 3/4"	9 1/2"	6 1/2"	11"	4 1/2"	
XL	15"	18"	6"	11 1/2"	6 3/4"	12 1/2"	4 3/4"	

# Critical Cover<sup>®</sup> Microbreathe<sup>™</sup> Garments

## Seam Construction

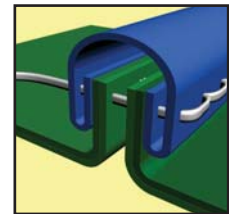
### Serged Seams

Produced when threads are interlocked around the material edges for a strong, stress-resistant seam.



### Bound Seams

Bound seams deliver extra durability and strength, as well as, reduce particulate shedding and provide extra protection against fluids.

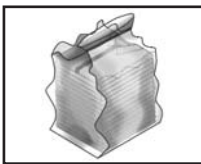


## Packaging Perfection

### General Use Garment Packaging

*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 garments are precision folded and stacked within the primary bag to permit efficient storage with or without bins.
- All open seams on shipping containers are tape sealed to further prevent contamination.
- Four-sided carton labeling allows easy identification and inventory management.



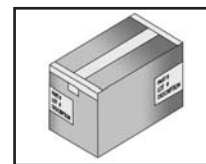
Primary Bag, heat sealed



Carton Liner

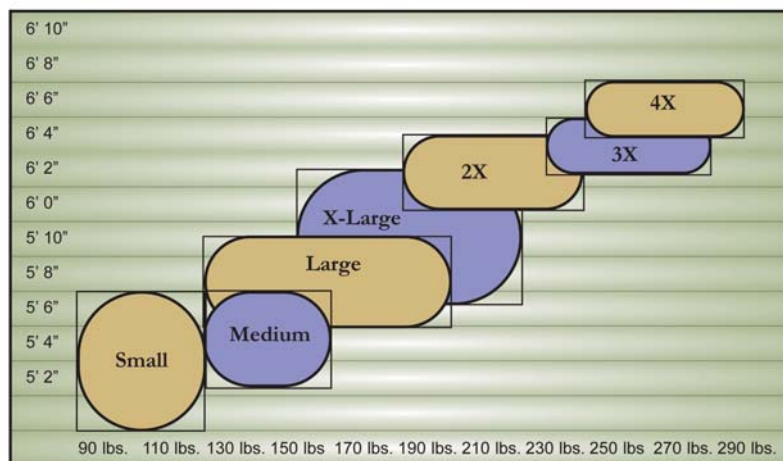


Open carton with taped down liner



Sealed carton with two corner labels

## Sizing Chart



Please contact us for other sizing

# Critical Cover<sup>®</sup> Microbreathe<sup>™</sup> Garments

Material Physical Properties	Standard Applied	Test Method	Microbreathe <sup>™</sup>	AquaTrak <sup>®</sup>
	Ball Burst Strength	(Puncture Strength) ASTM D3787	Average 26 lbs	Average 23 lbs
	BFE (Bacterial Filtration Efficiency)	MIL-M-36954C	99.90%	99.90%
	COF (Coefficient of Friction)	ASTM D1894 (Film to Metal Test)	N/T	Static 0.619 Kinetic 0.607
	Delta P (Differential Pressure)	MIL-M-36954C	mm H <sub>2</sub> O/cm <sup>2</sup> >122	mm H <sub>2</sub> O/cm <sup>2</sup> >119
	ESD (Electrostatic Decay Rate)	Fed. Std. 101C Method 4046 ASTM D257	Pass	N/T
	Grab Tensile Properties	ASTM D751 MD-Tensile Strength TD-Tensile Strength	Average 47 lbs 31 lbs	Average 28 lbs 40 lbs
	Helmke Drum (unwashed)	IEST-RP-CC003.3	Particles/cubic ft. @ 0.5 micron 312	Particles/cubic ft. @ 0.5 micron 62
	Hydrostatic Resistance	ASTM D751	N/T	20 psi
	Mass/Unit Area	ASTM D751	Average 1.90 oz/sq yd	Average 1.77 oz/sq yd
	Mullen Burst Strength	ASTM D3786	77 psi	146 psi
	Puncture Propagation Tear Resistance	ASTM E2582 MD-Tensile Strength TD-Tensile Strength	Average 8 lbs 7 lbs	Average 10 lbs 9 lbs
	Synthetic Blood Penetration	ASTM F1670	No Visible Penetration	N/T
	Trapezoid Tearing Strength	ASTM D4533 MD-Tensile Strength TD-Tensile Strength	Average 14 lbs 8 lbs	Average 12 lbs 17 lbs
	Water Resistance Impact Penetration	AATCC Method 42	No Visible Penetration	No Visible Penetration
	Water Vapor Transmission	ASTM E96	Average 0.592 oz/yd <sup>2</sup> /hr	Average 0.017 oz/yd <sup>2</sup> /hr

MD - Machine Direction    TD - Transverse Direction    NT - Not Tested

UltraGrip <sup>™</sup> 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<sup>®</sup> Microbreathe<sup>™</sup> Garments

Chemical Penetration Test Test Method Used: ASTM F903	Chemical Name	Pass/Fail	Time of Failure	Chemical Concentration
	Bleach - Household	Pass	N/A	100%
	Diesel Fuel	Fail	7 minutes	100%
	Hydroflouric Acid	Pass	N/A	10%
	Hydrogen Peroxide	Pass	N/A	30%
	Isocyanate Spray Paint Hardener	Pass	N/A	100%
	Isocyanate Spray Paint Reducer	Pass	N/A	100%
	Muriatic Acid (HCl)	Fail	<5 min	31%
	Phosphoric Acid	Pass	N/A	85%
	Round Up*	Pass	N/A	100%
	Sodium Hydroxide	Pass	N/A	50%
	Sulfuric Acid	Fail	50 minutes	93%
	Toluene	Fail	45 minutes	99%
	40 Weight Motor Oil	Pass	N/A	100%
Vesphene II SE*	Pass	N/A	100%	
SporKlenz*	Pass	N/A	100%	

**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, Inc. reserves the right to change any prices, terms and conditions of sale at any time without any notice.

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\*Vesphene is a trademark of E.R. Squibb and Sons, Inc.

\*Spor-Klenz is a trademark of Steris Corp.



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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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