

**MICROMAX**  
MICROPOROUS PROTECTIVE BLOTTING SYSTEM

**HBFB**

**High BREATHABILITY  
BARRIER Fabric**

122921 122922 122923  
122924

**Don't choose between barrier protection  
or wearer comfort...  
Get both with new MicroMax® HBF!**

**MicroMax® HBF** utilizes a conically perforated membrane and a proprietary meltblown layer to provide wearers with unmatched barrier and comfort. HBF brings cutting-edge film structures to the protective apparel market. Each of its four layers work together to improve barrier performance, comfort, and durability.

The film structure is unlike most breathable films. Typical microporous technology relies on a very small pore size and tortuous path through the film for barrier. As a result, these films have no air permeability and must rely on moisture vapor transmission rate testing as an indication of comfort.

The conical film structure on MicroMax HBF allows air permeability while limiting exposure of the meltblown layer to the challenge chemical. Also, because the film perforations are conical, larger on the outside of the fabric than on the inside, fluid barrier is improved significantly. The result is a fabric with superior dry particle and light liquid splash barrier *and* comfort for the wearer.

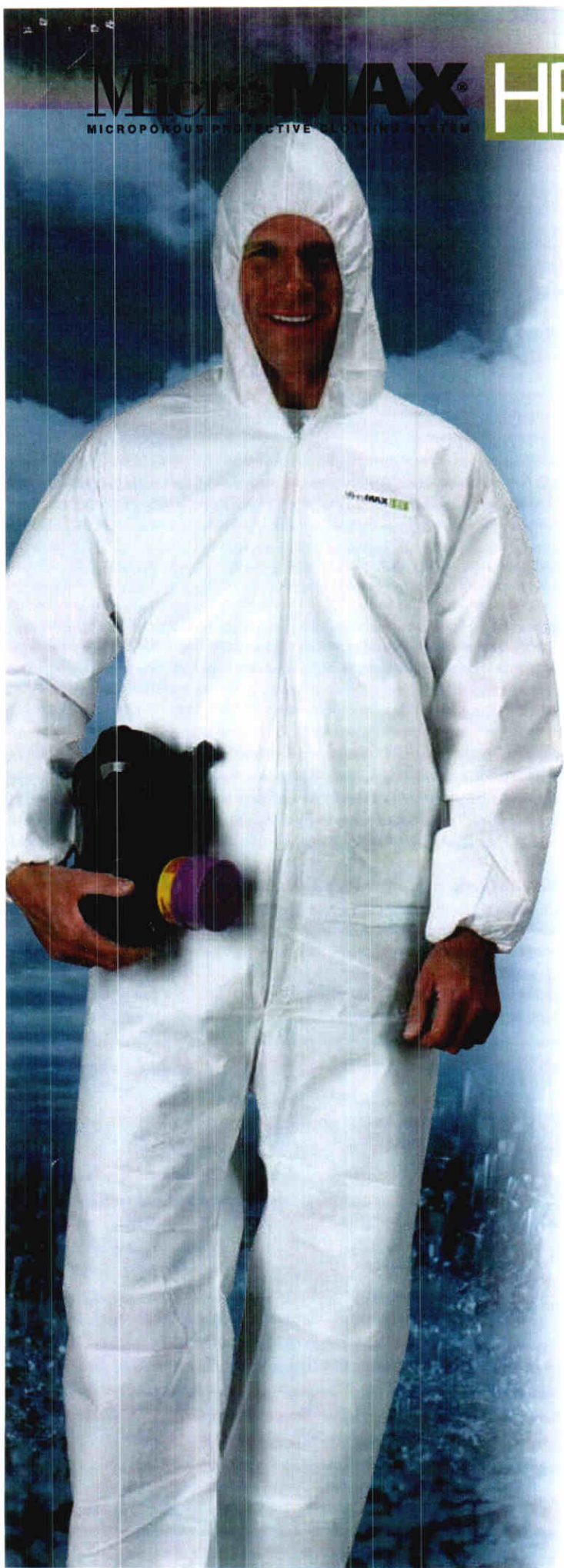
So don't choose between barrier and comfort. Get both! Choose MicroMax® HBF. Call us today for more information.

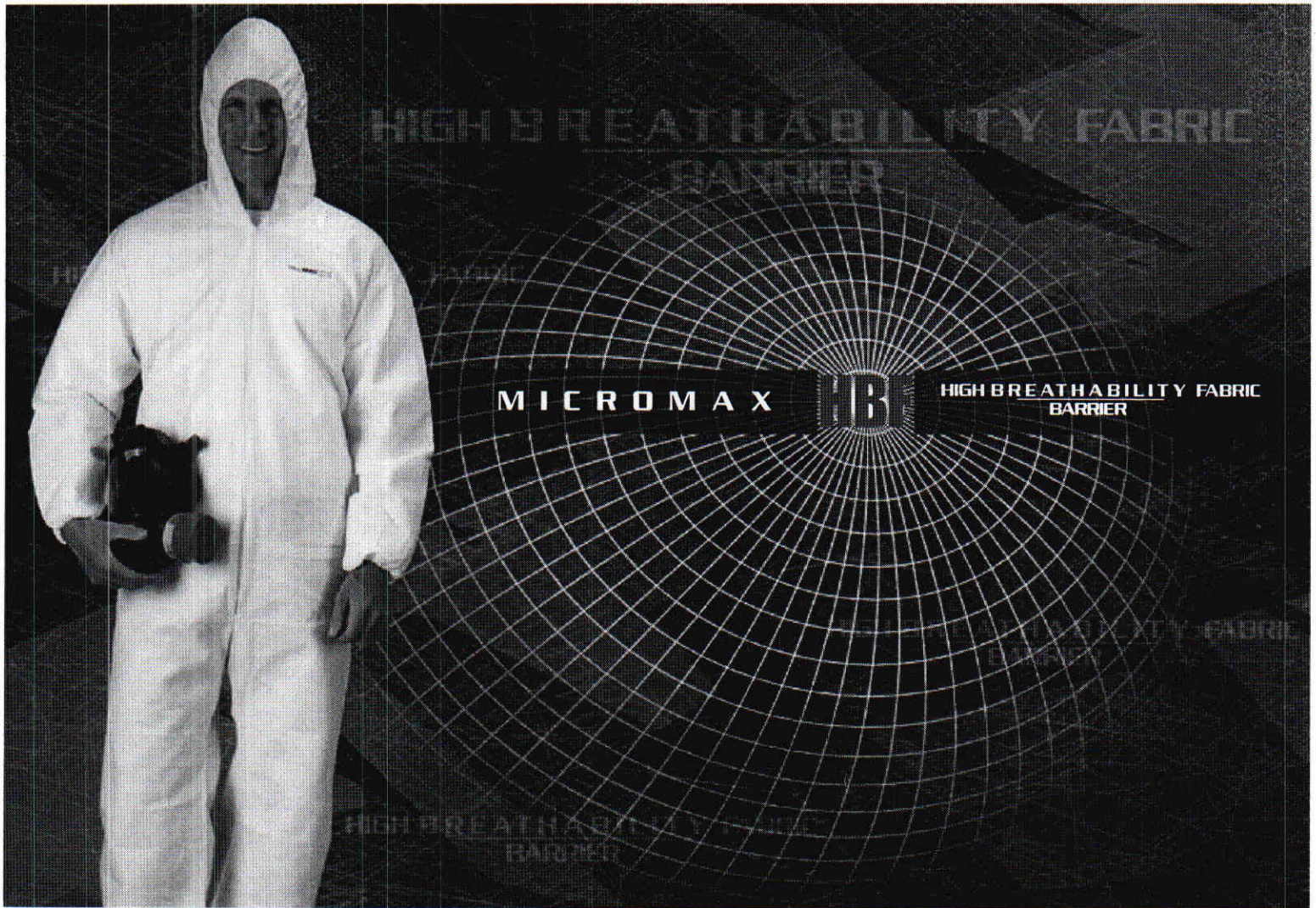
**MicroMax® HBF vs. Competitive Offerings**

Test	HBFB - 4 Layer	Competitive 3 layer film fabric	Test Procedure
Basis Weight	2.70	2.50	ASTM D750 (oz/yd2)
Tensile Strength	MD: 28.0 CD: 19.3	MD: 27.2 CD: 18.7	ASTM D5034 (lbf)
Trap Tear	MD: 14.47 CD: 8.25	MD: 7.1 CD: 4.8	ASTM D1117 (lbf)
Ball Burst	36	30.0	ASTM 3787 (lbs)
Mocon Breathability	20,000	8886	ASTM D6701 (g/m <sup>2</sup> /24 hrs)
Taber Abrasion	2,000	N/A	ASTM 3884 (cycles) CS 10 Abrasive Wheel, 250 gram load, 1st hole
Air Permeability	25	below 0.562	ASTM D737 (cfm/ft2)
Hydrostatic Water Resistance	720	226	ASTM D751 Procedure B (mm)
Flammability	Class 1	Class 1	16 CFR 1610
Alcohol Repellancy	10	9	IST 80.8 (99)
En 1149 Surface Resistivity	Pass	N/A	EN 1149-1: 1995

*This information is based upon technical data that the material manufacturer believes to be reliable. It is subject to revision as additional knowledge and experience are gained. The material manufacturer makes no guarantee of results and assumes no obligation or liability in connection with this information.*

**Lakeland**  
INDUSTRIES, INC





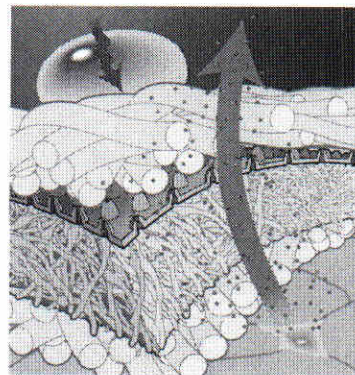
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The conical film structure on MicroMax HBF allows air permeability while limiting exposure of the meltblown layer to the challenge chemical. Also, because the film perforations are conical, smaller on the outside of the fabric than on the inside, fluid barrier is improved significantly over other "breathable" fabrics. The result is a fabric with superior dry particle and light liquid splash barrier *and* comfort for the wearer.

So don't choose between barrier and comfort. Get both! Choose MicroMax® HBF. Call us today for more information.



*The first significant advance in barrier protection in years. MicroMax HBF utilizes the fabric structure to limit challenge material penetration through the fabric. The same fabric structure, when combined with the physical properties of the meltblown layer, promotes the exchange of air and moisture between the inside of the fabric and the exterior. The result is outstanding barrier and comfort."*



**Coverall, Style HBF412**

MicroMax® HBF coverall with zipper.  
Sizes: S – 6X  
Case Pack: 25  
Case Weight: 9 lb



**Coverall, Style HBF414**

MicroMax® HBF coverall, zipper, attached hood, attached boots, elastic wrists. Sizes: S – 6X  
Case Pack: 25  
Case Weight: 11 lbs.



**Coverall, Style HBF417**

MicroMax® HBF coverall with collar, zipper, elastic wrists and ankles.  
Sizes: S – 6X  
Case Pack: 25  
Case Weight: 9 lbs.



**Coverall, Style HBF428**

MicroMax® HBF coverall, zipper, attached hood, elastic wrists and ankles.  
Sizes: S – 6X  
Case Pack: 25  
Case Weight: 11 lbs.

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