

## MULTI-WEDGE 45 'S'

**SELF-SEALING**

**MERV 9**



### **MEDIA DESIGNED TO LAST**

*Fiber Bond Multi-Wedge filters are made with a tough, high density polyester media manufactured at Fiber Bond.*

*Resistant to high humidity, oil mists, acids, alkalies and most organic solvents.*

### **HEAT SEAL CONSTRUCTION**

*All perimeter edges and internal dividers are permanently welded together. This dielectric process assures a leak proof self-supporting pocket. No needle holes for dirt migration downstream.*

### **SELF-SEAL FRONT LOAD DESIGN**

*The positive edge self sealing design is used in conventional front access systems.*

*The overlapping media tightly pressure fits against the holding frame. No by-pass around the filter.*

### **SPOR-AX - NO EARLY CHANGE OUTS**

*Spor-Ax controls the growth of mold, mildew, algae and fungi on the filter.*

*Mold build up on filter media will increase resistance. No early or unanticipated filter purchases and change out.*

### **APPLICATIONS**

- ★ HOSPITALS
- ★ OFFICE BUILDINGS
- ★ AIRPORTS
- ★ FOOD PROCESSING
- ★ UNIVERSITIES
- ★ HOTELS
- ★ RESTAURANTS
- ★ MEDICAL BUILDINGS

### **WHY MULTI-WEDGE 45 'S'**

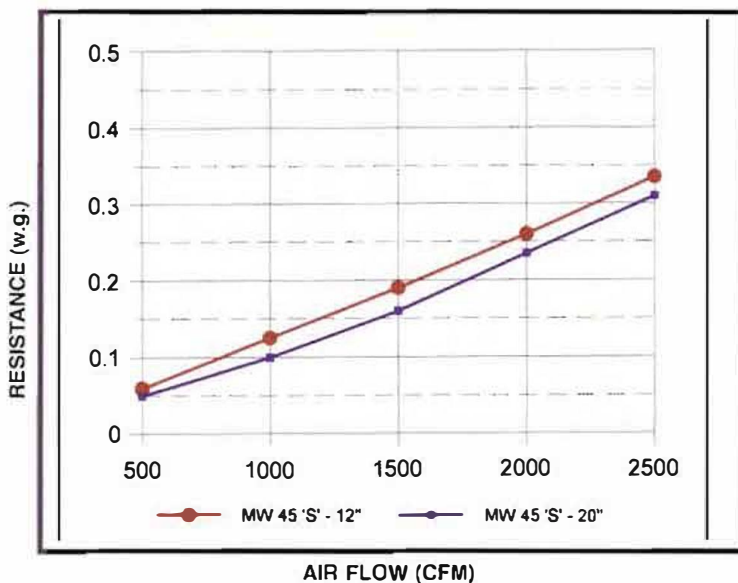
- ◆ WELDED HEAT SEALED POCKETS
- ◆ MOISTURE RESISTANT
- ◆ 100% SYNTHETIC MEDIA
- ◆ SPOR-AX® ANTIMICROBIAL
- ◆ MERV 9
- ◆ 12" & 20" DEPTH

**"THE BEST FILTERS  
COME FROM THE BEST MEDIA"**

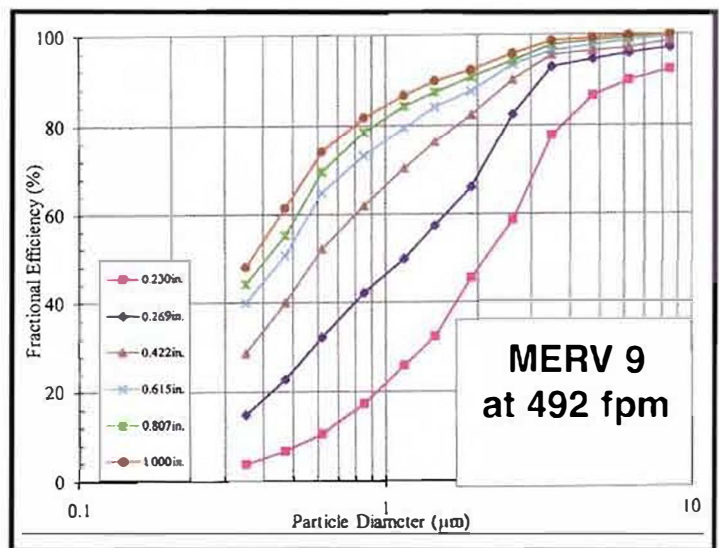
# TECHNICAL DATA

- MERV 9 - ASHRAE 52.2-1999
- Operating temperature up to 200° F.
- Initial Resistance (w.g.) at 492 fpm: 12 inch -0.27", 20 inch -0.23"
- Recommended discard point 1.0" wg
- Underwriter's Laboratories Class 2

**RESISTANCE VS AIRFLOW**



**REMOVAL EFFICIENCY VS PARTICLE SIZE**



Particle Size Removal Efficiency Conducted by LMS Technologies.



100% welded heat sealed perimeter edges and internal seals assure a leak-proof construction.



Overlapping media pressure fits against frame preventing dirt by-pass.



Fiber Bond Multi-Wedge 45  
Also Available in a Header Design.

Spor-Ax® is a registered trademark of Fiber Bond Corporation.

## MULTI-WEDGE 45 'H'

**MERV 9**



### WHY MULTI-WEDGE 45 'H'

- ◆ WELDED HEAT SEALED POCKETS
- ◆ MOISTURE RESISTANT
- ◆ 100% SYNTHETIC MEDIA
- ◆ SPOR-AX® ANTIMICROBIAL
- ◆ MERV 9
- ◆ 12" - 20" - 24" DEPTH

### MEDIA DESIGNED TO LAST

Fiber Bond Multi-Wedge 45 filters are made with a tough, high density polyester media manufactured at Fiber Bond.

Designed to withstand the most severe environmental operating conditions.

Resistance to high humidity, oil mists, acids, alkalies and most organic solvents.

### HEAT SEAL CONSTRUCTION

All perimeter edges and internal dividers are permanently welded together. This dielectric process assures a leak proof self-supporting pocket. No needle holes for dirt migration downstream.

### SPOR-AX - NO EARLY CHANGE OUTS

Spor-Ax antimicrobial is a proven, highly effective biocide. Spor-Ax controls the growth of mold, mildew, algae and fungi on the filter. Spor-Ax will not off gas, migrate or leach into the air stream.

Mold build up on filter media will increase resistance. No early and unanticipated filter purchases and change outs.

### APPLICATIONS

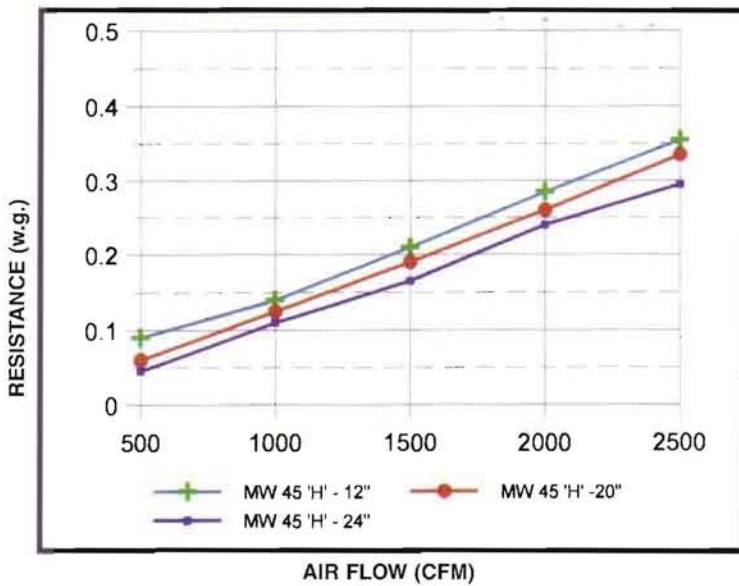
- ★ HOSPITALS
- ★ AIRPORTS
- ★ UNIVERSITIES
- ★ RESTAURANTS
- ★ OFFICE BUILDINGS
- ★ FOOD PROCESSING
- ★ HOTELS
- ★ MEDICAL BUILDINGS

**"THE BEST FILTERS  
COME FROM THE BEST MEDIA"**

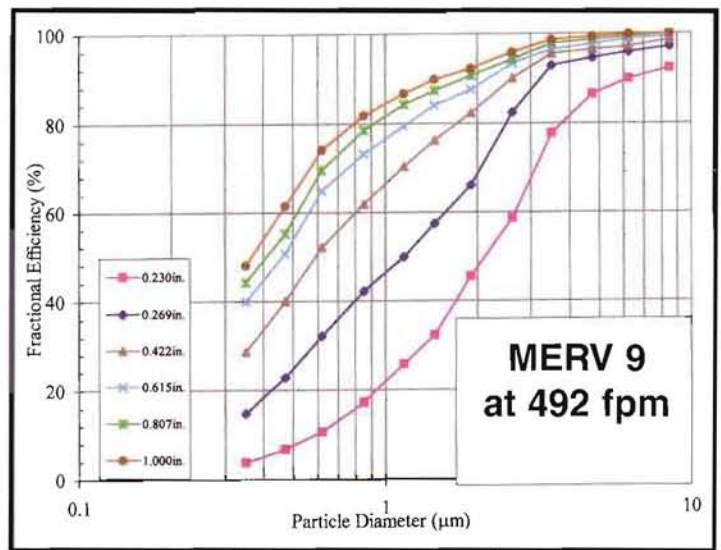
# TECHNICAL DATA

- MERV 9 - ASHRAE 52.2-1999
- Operating temperature up to 200° F.
- Initial Resistance (w.g.) at 492 fpm: 12 inch -0.28", 20 inch -0.26", 24 inch -0.24"
- Recommended discard point 1.0" wg
- Underwriter's Laboratories Class 2

**RESISTANCE VS AIRFLOW**

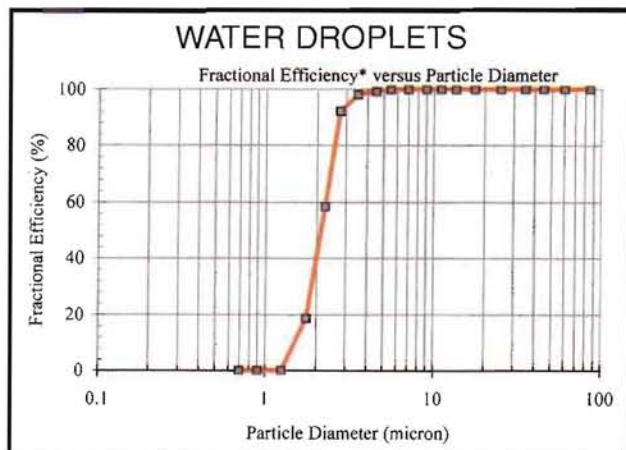


**REMOVAL EFFICIENCY VS PARTICLE SIZE**



Particle Size Removal Efficiency Conducted by LMS Technologies.

Fiber Bond Multi-Wedge 45 media will withstand severe operating conditions. 100% moisture will not break down the Multi-Wedge 45 media. Shown are MW 45 filters as a moisture / particle separator.



Moisture Separator Test Conducted by LMS Technologies. (April 2006)

Spor-Ax® is a registered trademark of Fiber Bond Corporation.

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## MULTI-WEDGE 65 'S'

SELF-SEALING

MERV 11



### WHY MULTI-WEDGE 65 'S'

- ◆ WELDED HEAT SEALED POCKETS
- ◆ MOISTURE RESISTANT
- ◆ 100% SYNTHETIC MEDIA
- ◆ SPOR-AX® ANTIMICROBIAL
- ◆ MERV 11
- ◆ 12" & 20" DEPTH

### MEDIA DESIGNED TO LAST

Fiber Bond Multi-Wedge filters are made with a tough, high density polyester media manufactured at Fiber Bond.

Resistant to high humidity, oil mists, acids, alkalies and most organic solvents.

### HEAT SEAL CONSTRUCTION

All perimeter edges and internal dividers are permanently welded together. This dielectric process assures a leak proof self-supporting pocket. No needle holes for dirt migration downstream.

### SELF-SEAL FRONT LOAD DESIGN

The positive edge self sealing design is used in conventional front access systems. The overlapping media tightly pressure fits against the holding frame. No by-pass around the filter.

### SPOR-AX - NO EARLY CHANGE OUTS

Spor-Ax controls the growth of mold, mildew, algae and fungi on the filter. Otherwise, mold build up on filter media will increase resistance. No early or unanticipated filter purchases and change out.

### APPLICATIONS

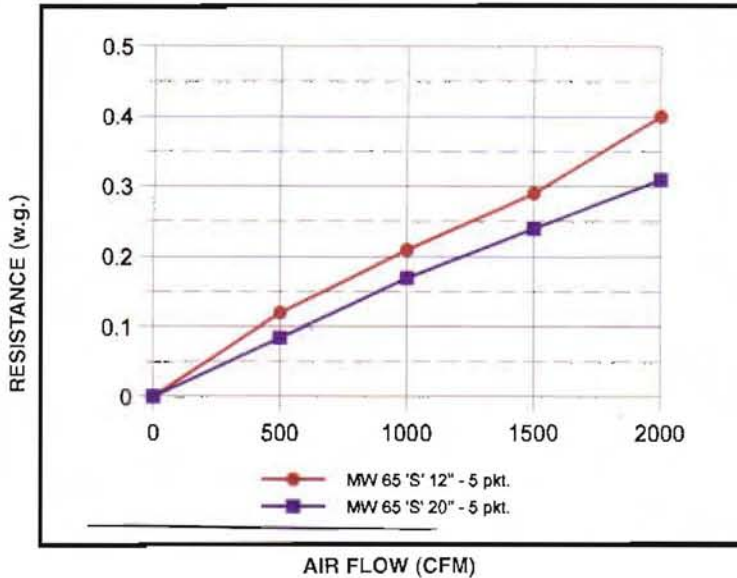
- ★ HOSPITALS
- ★ AIRPORTS
- ★ UNIVERSITIES
- ★ FACTORIES
- ★ OFFICE BUILDINGS
- ★ FOOD PROCESSING
- ★ PRINTING PLANTS
- ★ MEDICAL BUILDINGS

**"THE BEST FILTERS  
COME FROM THE BEST MEDIA"**

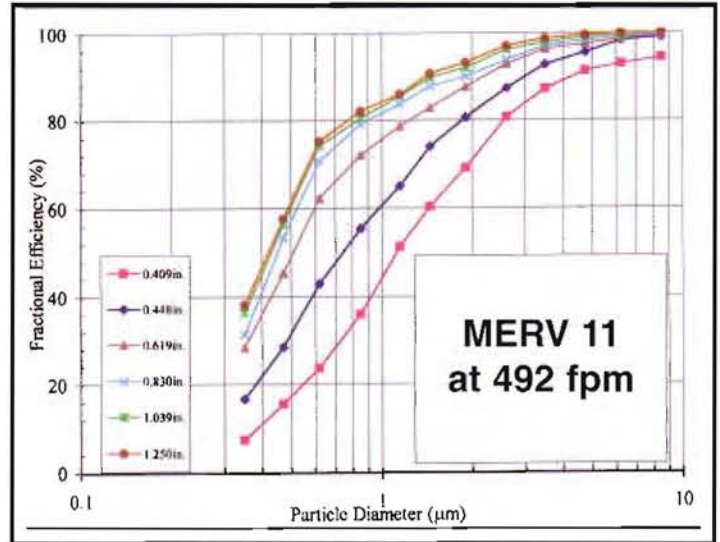
# TECHNICAL DATA

- MERV 11 - ASHRAE 52.2-1999
- Operating temperature up to 200° F.
- Initial resistance (w.g.) at 492 fpm: 12 inch depth - 0.40"
- Initial resistance (w.g.) at 492 fpm: 20 inch depth - 0.31"
- Recommended discard point 1.25" wg
- Underwriter's Laboratories Class 2

## RESISTANCE VS AIRFLOW



## REMOVAL EFFICIENCY VS PARTICLE SIZE



Particle Size Removal Efficiency Conducted by LMS Technologies.  
Filter Size: 24 x 24 x 24 - 6 pocket



100% Welded Heat Sealed Perimeter Edges and Internal Seals Assure a Leak-Proof Construction.



Fiber Bond Multi-Wedge 65 is Also Available in a Header Design.

Spor-Ax® is a registered trademark of Fiber Bond Corporation.

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## MULTI-WEDGE 65 'H'

**MERV 11**



### WHY MULTI-WEDGE 65 'H'

- ◆ WELDED HEAT SEALED POCKETS
- ◆ MOISTURE RESISTANT
- ◆ 100% SYNTHETIC MEDIA
- ◆ SPOR-AX® ANTIMICROBIAL
- ◆ MERV 11
- ◆ 12" & 24" DEPTH

### **MEDIA DESIGNED TO LAST**

*Fiber Bond Multi-Wedge 65 media is a tough, high density polyester manufactured at Fiber Bond.*

*Resistant to high humidity, oil mists, acids, alkalies and most organic solvents.*

*The high dust holding capacity makes the MW 65 'H' a stand alone filter.*

### **HEAT SEAL CONSTRUCTION**

*All perimeter edges and internal dividers are permanently welded together. This dielectric process assures a leak proof self-supporting pocket. No needle holes for dirt migration downstream.*

*The self-supporting pockets withstand the most severe environmental operating conditions.*

### **SPOR-AX - NO EARLY CHANGE OUTS**

*Spor-Ax antimicrobial is a proven, highly effective biocide which controls growth of mold, mildew, algae and fungi on the filter.*

*Mold build up on filter media will increase resistance. No early or unanticipated filter purchases and change outs.*

### **APPLICATIONS**

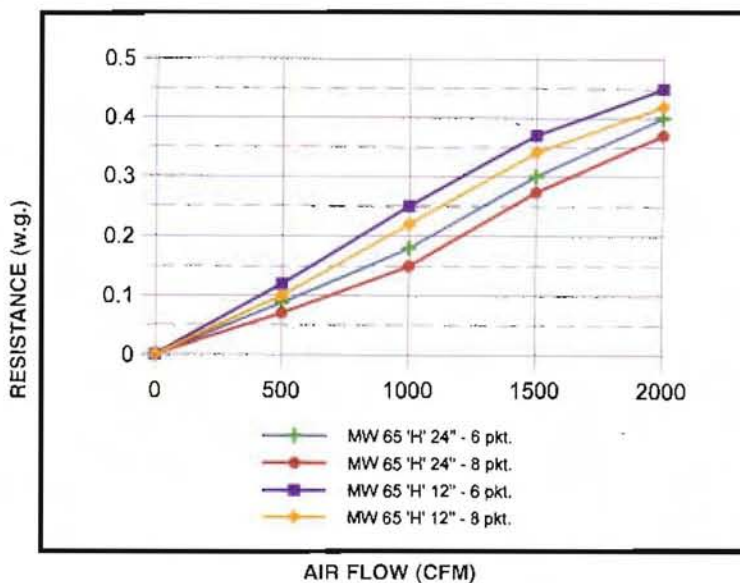
- ★ HOSPITALS
- ★ AIRPORTS
- ★ UNIVERSITIES
- ★ FACTORIES
- ★ OFFICE BUILDINGS
- ★ FOOD PROCESSING
- ★ PRINTING PLANTS
- ★ MEDICAL BUILDINGS

**"THE BEST FILTERS  
COME FROM THE BEST MEDIA"**

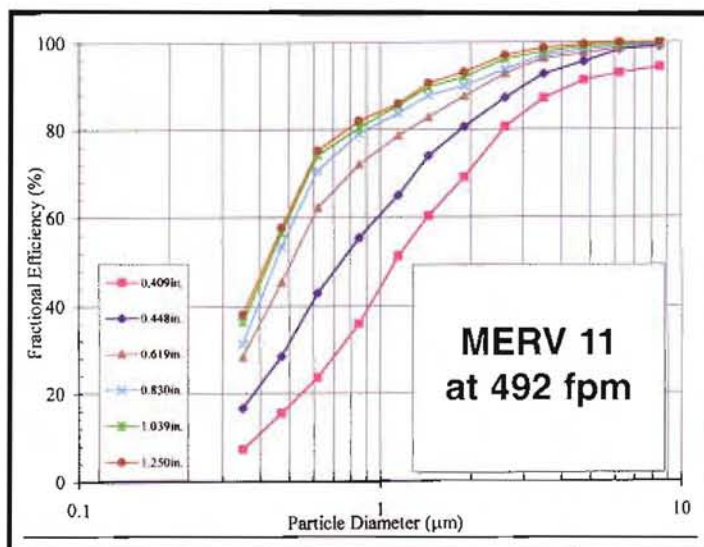
# TECHNICAL DATA

- MERV 11 - ASHRAE 52.2-1999
- Operating temperature up to 200° F.
- Initial resistance (w.g.) at 492 fpm: 12 inch depth series - 0.42" to 0.45"
- Initial resistance (w.g.) at 492 fpm: 24 inch depth series - 0.37" to 0.40"
- Recommended discard point 1.25" wg
- Underwriter's Laboratories Class 2

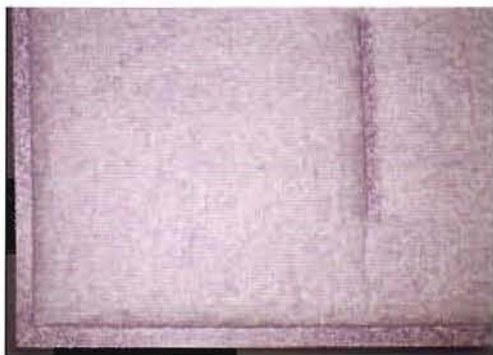
**RESISTANCE VS AIRFLOW**



**REMOVAL EFFICIENCY VS PARTICLE SIZE**



Particle Size Removal Efficiency Conducted by LMS Technologies.  
Filter Size: 24 x 24 x 24 - 6 pocket



100% Welded Heat Sealed Perimeter Edges and Internal Seals Assure a Leak-Proof Construction.



Fiber Bond Multi-Wedge 65 is Also Available in a Self-Sealing Design.

Spor-Ax® is a registered trademark of Fiber Bond Corporation.

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**FIBERBOND**

The **Best** Filters Begin  
With The **Best** Media

**Multi-Wedge 85 & 95**



***High-Efficiency***

**Multi-Wedge 85  
MERV 13  
and  
Multi-Wedge 95  
MERV 14**

***Available In  
Short & Extended  
Depths***

***Spor-Ax<sup>®</sup>  
Antimicrobial***

***Superior  
Quality & Design***

***Unmatched  
Performance***


***UL 900 Classified***

**FIBERBOND**

110 Menke Road, Michigan City, IN 46360 • Phone (219) 879-4541 • Fax (219) 874-7502  
Email: [customer.service@fiberbond.net](mailto:customer.service@fiberbond.net) • [www.fiberbond.net](http://www.fiberbond.net)

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 **FILTER**  
Sales & Service, Inc.

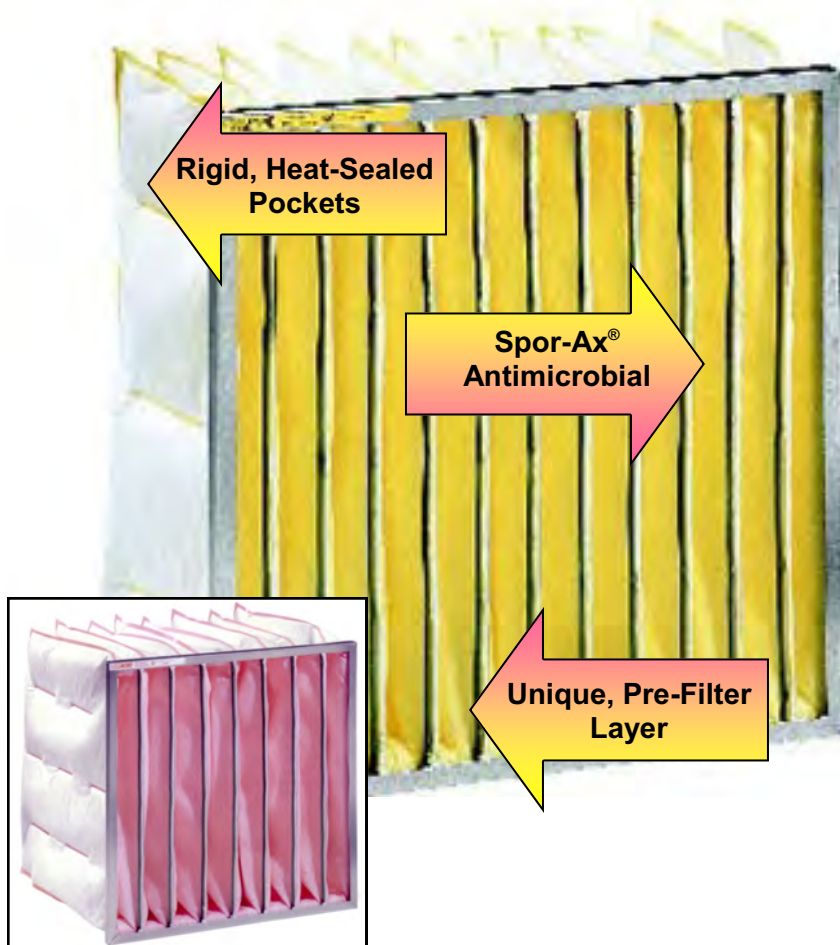
 (800) 848-9305

 [www.filtersales.com](http://www.filtersales.com)

# FIBERBOND

The **Best** Filters Begin  
With The **Best** Media

## Multi-Wedge 85 & 95



High-Efficiency  
**Multi-Wedge 85**  
**MERV 13**  
&  
**Multi-Wedge 95**  
**MERV 14**

### Multi-Wedge 85 & 95

**Filter Media:** Non-woven composite  
**Flammability:** UL 900 Classified  
**Performance:** In accordance with ASHRAE 52.2 -2012 shall be MERV 13 (Multi-Wedge 85) or MERV 14 (Multi-Wedge 95)  
**Recommended**  
**Final Resistance:** 1.5" w.g.  
**Maximum Operating Temperature:** 200°F  
**Header:** 13/16" thickness  
**Gasketing:** Available  
**Face Size:** Nominal less 5/ 8"

### Filter Specifications

Filter shall be an extended surface, multi-pocket design

Pockets shall be *rigid and tapered in design; and formed by a heat-sealed process* thus eliminating particulate migration concerns

Media shall be a durable, multi-layer, non-woven composite that is resistant to moisture, oil mists and extreme conditions


Shall contain Spor-Ax® antimicrobial which effectively controls microbial growth on filter media

# FIBERBOND

110 Menke Road, Michigan City, IN 46360 • Phone (219) 879-4541 • Fax (219) 874-7502  
Email: [customer.service@fiberbond.net](mailto:customer.service@fiberbond.net) • [www.fiberbond.net](http://www.fiberbond.net)

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 **FILTER**  
Sales & Service inc.

 (800) 848-9305

 [www.filtersales.com](http://www.filtersales.com)

### High-Efficiency Multi-Wedge Filters

Multi-Wedge filters were one of the industry's first extended surface, synthetic pocket filters and they continue to be among the best. Today's high-efficiency Multi-Wedges are engineered to offer a lower initial resistance, while maintaining all of the superior design qualities. Multi-Wedge combines the value of Spor-Ax<sup>®</sup> antimicrobial and tapered, rigid pockets - delivering a filter that maximizes service life and holds up in high moisture conditions.

**Rigid, Heat-Sealed Pockets**

No Particulate Migration Through Pocket Edge Seals

**Lower Initial Resistance**

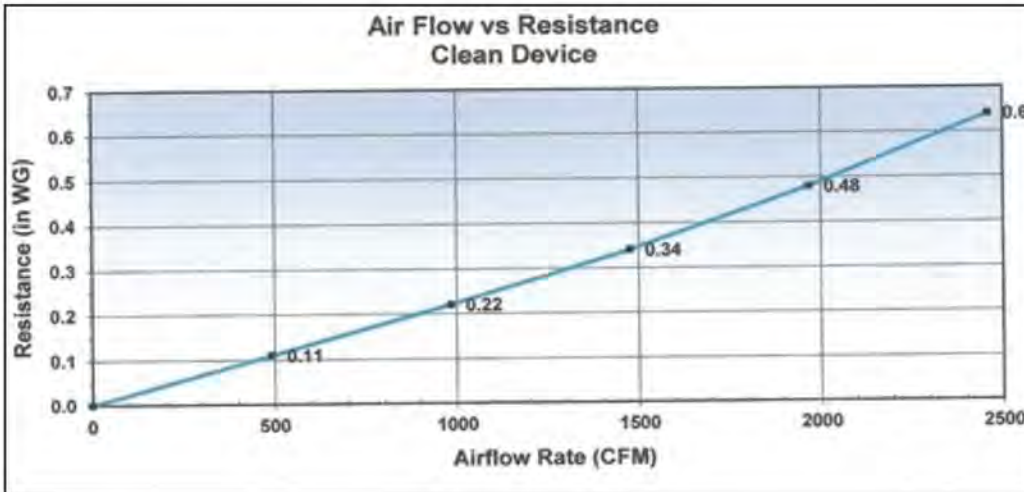
Reduces Energy Costs

**Unique, Pre-Filter Media**

Extends Service Life

**Spor-Ax<sup>®</sup>**

Controls Microbial Growth On Filter Media



**Multi-Wedge 85**  
**MERV 13**  
24" x 24" x 12"  
12 pockets

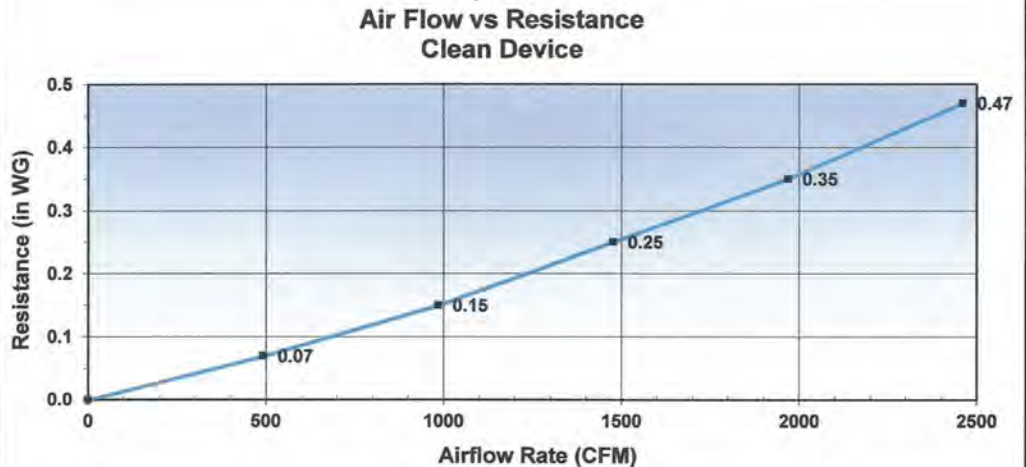
**Initial Resistance**  
0.48" w.g. at 492 fpm

Independent test results in accordance with ASHRAE Standard 52.2-2012

**Multi-Wedge 95**  
**MERV 14**  
24" x 24" x 24"  
8 pockets

**Initial Resistance**  
0.35" w.g. at 492 fpm

Independent test results in accordance with ASHRAE Standard 52.2-2012



<b>Multi-Wedge 85 • MERV 13 • 12" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 12 - 6	1,000 CFM	0.47"	24
16 x 24 x 12 - 8	1,135 CFM	0.47"	32
20 x 20 x 12 - 10	1,400 CFM	0.47"	37
20 x 24 x 12 - 10	1,660 CFM	0.47"	40
24 x 12 x 12 - 6	1,000 CFM	0.47"	13
24 x 20 x 12 - 12	1,660 CFM	0.47"	44.4
24 x 24 x 12 - 12	2,000 CFM	0.47"	48
<b>Multi-Wedge 85 • MERV 13 • 24" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 24 - 3	1,000 CFM	0.42"	23.6
12 x 24 x 24 - 4	1,000 CFM	0.36"	31.5
16 x 24 x 24 - 5	1,135 CFM	0.36"	39.4
20 x 20 x 24 - 5	1,400 CFM	0.42"	34.6
20 x 20 x 24 - 6	1,400 CFM	0.36"	47
20 x 24 x 24 - 5	1,660 CFM	0.42"	39.4
20 x 24 x 24 - 6	1,660 CFM	0.36"	47
24 x 12 x 24 - 5	1,000 CFM	0.42"	21.7
24 x 12 x 24 - 6	1,000 CFM	0.36"	26
24 x 20 x 24 - 6	1,660 CFM	0.42"	41.5
24 x 20 x 24 - 8	1,660 CFM	0.36"	55.3
24 x 24 x 24 - 6	2,000 CFM	0.42"	47
24 x 24 x 24 - 8	2,000 CFM	0.36"	63
<b>Multi-Wedge 85 • MERV 13 • 30" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 30 - 4	1,000 CFM	0.36"	39
20 x 24 x 30 - 6	1,660 CFM	0.36"	59
24 x 12 x 30 - 6	1,000 CFM	0.36"	32.5
24 x 24 x 30 - 8	2,000 CFM	0.36"	78.5

Contact Fiber Bond for  
availability of sizes not shown.

MERV 9 & MERV 11 Multi-Wedge  
Filters Also Available



110 Menke Road • Michigan City, Indiana 46360  
(219) 879-4541 • Fax (219) 874-7502  
Email: [customer.service@fiberbond.net](mailto:customer.service@fiberbond.net)

Fiber Bond has a policy of continuous product research and  
improvement and reserves the right to alter design and specifications  
without notice.

<b>Multi-Wedge 95 • MERV 14 • 12" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 12 - 6	1,000 CFM	0.49"	24
16 x 24 x 12 - 8	1,135 CFM	0.49"	32
20 x 20 x 12 - 10	1,400 CFM	0.49"	37
20 x 24 x 12 - 10	1,660 CFM	0.49"	40
24 x 12 x 12 - 6	1,000 CFM	0.49"	13
24 x 20 x 12 - 12	1,660 CFM	0.49"	44.4
24 x 24 x 12 - 12	2,000 CFM	0.49"	48
<b>Multi-Wedge 95 • MERV 14 • 15" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 15 - 6	1,000 CFM	0.46"	30
16 x 24 x 15 - 8	1,135 CFM	0.46"	40
20 x 20 x 15 - 10	1,400 CFM	0.46"	45.8
20 x 24 x 15 - 10	1,660 CFM	0.46"	50
24 x 12 x 15 - 6	1,000 CFM	0.46"	19
24 x 20 x 15 - 12	1,660 CFM	0.46"	56.4
24 x 24 x 15 - 12	2,000 CFM	0.46"	60
<b>Multi-Wedge 95 • MERV 14 • 24" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 24 - 3	1,000 CFM	0.44"	23.6
12 x 24 x 24 - 4	1,000 CFM	0.38"	31.5
20 x 20 x 24 - 5	1,400 CFM	0.44"	34.6
20 x 20 x 24 - 6	1,400 CFM	0.38"	47
20 x 24 x 24 - 5	1,660 CFM	0.44"	39
20 x 24 x 24 - 6	1,660 CFM	0.38"	47
24 x 12 x 24 - 5	1,000 CFM	0.44"	21.7
24 x 12 x 24 - 6	1,000 CFM	0.38"	26
24 x 20 x 24 - 6	1,660 CFM	0.44"	41.5
24 x 20 x 24 - 8	1,660 CFM	0.38"	55.3
24 x 24 x 24 - 6	2,000 CFM	0.44"	47
24 x 24 x 24 - 8	2,000 CFM	0.38"	63
<b>Multi-Wedge 95 • MERV 14 • 30" Depth</b>			
Nominal Size w x h x d -pockets	Air Flow CFM	Resistance @ 500 fpm	Media (sq ft)
12 x 24 x 30 - 4	1,000 CFM	0.38"	39
20 x 24 x 30 - 6	1,660 CFM	0.38"	59
24 x 12 x 30 - 6	1,000 CFM	0.38"	32.5
24 x 24 x 30 - 8	2,000 CFM	0.38"	78.5

Performance tolerances conform to Section 7.4  
of ARI Standard 850 - 2004.

September 2013