



Better Air is Our Business®



# AmericanAirFilter® FrontLine™ Fiberglass Air Filter Media



High performance media available with a range of performance features to meet the specific requirements of your ventilation system.

Media	FrontLine Gold	FrontLine Blue	FrontLine Green	FrontLine Red
	Designed for the toughest operating conditions, offers the highest performance and best value.	Designed for high performance during normal operating conditions.	The economical choice for high performance during light duty operating conditions.	Ideal for higher temperature applications.
	Industrial grade media for extra heavy dirt loading conditions, tinted gold on air leaving side	Commercial grade media for medium to heavy dirt loading conditions, tinted blue on air leaving side	Standard grade media for light dirt loading conditions, tinted green on air leaving side	UL Classified, high temp. media for applications up to 250°F (121°C), tinted red on air leaving side
Sizes	1" and 2" thick	1" and 2" thick	1/2", 1" and 2" thick	2" thick
Fiber Content	Extra High	High	Standard	Extra High
Media Construction	Progressive Density Bonded-Fiber Particle Barrier	Progressive Density Bonded-Fiber Particle Barrier	Constant Density	Progressive Density
Compression Strength	Very High	High	Standard	Very High
Viscosine Adhesive	Heavy Application	Medium Application	Light Application	No adhesive, dry media

## Fiber Content

Higher fiber content provides more dirt catching media surface.



Note the difference in fiber content between FrontLine Gold media (right) and a competitive media (left).

## Compression Strength

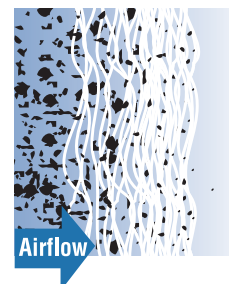
Resin applied to the fiberglass during spinning is cured in an oven to form a strong bond at each fiber intersection. Bonded fibers increase compression strength, allowing air to move throughout the entire thickness of the media.



This highly magnified photomicrograph shows how each fiber intersection is solidly bonded.

## Media Construction

FrontLine Gold, Blue, and Red fiberglass media are designed with "Progressive Density" construction. Fibers on the air entering side are interlaced in an open pattern which becomes progressively tighter. Dirt loads from back to front, taking advantage of the entire thickness of the media.



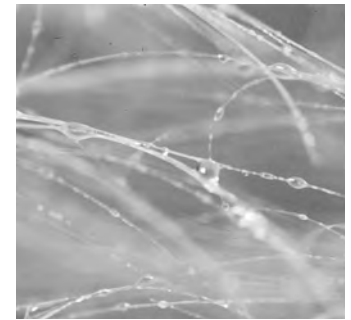
"Progressive Density" construction prevents faceloading, and increases arrestance and dust holding capacity.

### Bonded Fiber Particle Barrier

FrontLine Gold and Blue fiberglass media are constructed with a tightly bonded layer of fibers on the air leaving side forming a final barrier against dirt. This skin backing improves filter performance by preventing particles from migrating through the media and flowing downstream.

### Viscosine™ Adhesive

AAF International's exclusive Viscosine adhesive helps retain particles as they impinge on fibers, preventing them from breaking away and flowing downstream. Non-toxic and odorless, Viscosine adhesive maintains its highly viscous, dirt-trapping characteristics over the life of the filter.



Viscosine™ adhesive is applied to FrontLine Gold, Blue, and Green media.

### Performance Data

All media are available in pads and rolls.

Media Type	Rated Initial Resistance (in. w.g.)			Rated Average Arrestance (%)		Recommended Final Resistance (in. w.g.)
	300 FPM	500 FPM	625 FPM	300 FPM	500FPM	
<b>FrontLine Gold</b>						
1"	.10	.20	.27	85-90	75-80	1.0
2"	.13	.25	.35	85-90	80-85	1.0
<b>FrontLine Blue</b>						
1"	.09	.19	.26	80-85	70-75	1.0
2"	.10	.21	.30	85-90	75-80	1.0
<b>FrontLine Green</b>						
1/2"	.14	.16	N/R	65-70	65-70	0.5
1"	.07	.18	.24	80-85	70-75	1.0
2"	.10	.20	.30	80-85	70-75	1.0
<b>FrontLine Red</b>						
2"	.10	.25	.35	75-80	65-70	1.0

All performance data is based on ASHRAE Standard 52.2. Performance tolerances conform to Section 7.4 of ARI Standard 850-93.

### Continuous Operating Temperature

FrontLine Gold Media	175°F	(79°C)
FrontLine Blue Media	175°F	(79°C)
FrontLine Blue Dry Media	200°F	(93°C)
FrontLine Green Media	175°F	(79°C)
FrontLine Red Media	250°F	(121°C)

### Underwriters Laboratories Classification

All FrontLine media are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111.