

# FrontLine™ Gold

## FIBERGLASS FILTER MEDIA



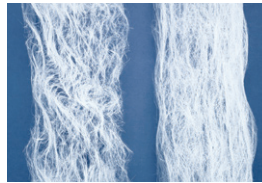
Frontline Gold media is a high performance media available with a range of performance features to meet the specific requirements of your ventilation system.

- Extra high fiber content
- Progressive density bonded-fiber particle barrier media construction
- Superior compression strength
- Heavy application Viscosine adhesive
- Available in 1" and 2" thickness

FrontLine Gold is an industrial grade fiberglass media designed for the toughest operating conditions. The extra high fiber content of the media provides more dirt catching surface, while its progressive density pattern prevents face loading. Dirt loads from back to front, taking advantage of the pad's entire thickness for increased arrestance and dust holding capacity.

### Fiber Content

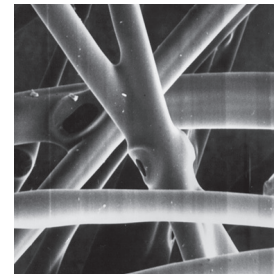
Higher fiber content provides more dirt catching media surface.



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 fiberglass media is designed with "Progressive Density" construction. Fibers on the air entering side are interlaced in an open pattern that 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.

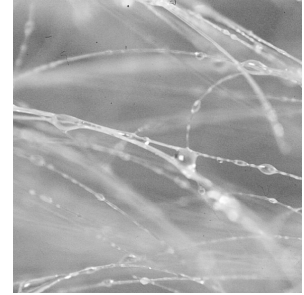
# FrontLine™ Gold Media

## Bonded Fiber Particle Barrier

FrontLine Gold fiberglass media is 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. The media is tinted gold on the air leaving side.

## Viscosine™ Adhesive

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.

## Performance Data

FrontLine Gold Media is 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

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

175°F (79°C)

## Underwriters Laboratories Classification

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



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