

### Technical Data Sheet

Material Designation

Grade AE48

Material Properties  
Summary

☒ *Binderless*

☐ *Organic Binder*

☐ *Double Laminated*

☐ *Acrylic Binder*

☐ *Laminated*

☐ *Hydrophobic*

This is a binderless, modified high efficiency (HEPA type) filter medium specifically designed for analytical applications. High flow rate with high capacity. This binderless borosilicate glass fiber media has no added extractables to aid in the elimination of sample contamination. Excellent wet strength.

Common usage includes gravimetric analysis of course air pollutants and membrane prefilters.

#### Micron rating

4

$\mu\text{m}$

#### Basis Weight

48

*lbs/3,000 ft<sup>2</sup>*

*TAPPI Method T410*

#### Caliper Thickness

0.018

*inches - 4 psi*

*TAPPI Method T411*

#### Mean Pore Size

5.6

$\mu\text{m}$

#### DOP Smoke Penetration

2.1

*% at 0.3  $\mu\text{m}$  @  
10.5 ft/minute*

*ASTM Method D-2986*

#### Air Flow Resistance

21

*mm H<sub>2</sub>O @  
10.5 ft/minute*

*ASTM Method D-2986*

#### Tensile Strength MD

3.0

*lbs / inches*

*TAPPI Method T494*

#### Tensile Strength CD

2.0

*lbs / inches*

*TAPPI Method T494*

#### Dry Elongation MD

3.0

*%*

*TAPPI Method T494*

#### Dry Elongation CD

4.0

*%*

*TAPPI Method T494*

#### Frazier Permeability

-

*ft<sup>3</sup> / min / ft<sup>2</sup> @  
0.5in H<sub>2</sub>O W.G.*

*ASTM Method F778-82*

#### Gurley Stiffness

-

*mg*

*TAPPI Method T543*

#### Water Repellency

-

*Inches H<sub>2</sub>O*

#### Ignition Loss

Binderless

*% Loss*

Comments: *Applications include:  
Specialty grade.*

*Actual filtration performance, i.e. efficiency and dust holding capacity, will vary depending upon filter design parameters and the normal variation of the media properties consistent with the specification range. We continuously strive to define our products and hence the specifications are subject to change.*