## I.W. Tremont Co., Inc.

## **Filter & Technical Specialty Papers**

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Material Properties Summary This pure borosilicate g	M Pindarlaga 🗖 Ora		Oraue A
This pure borosilicate g	$\Box$ Acrylic Binder $\Box$ Lan	anic Binder 🔲 Double Laminat ninated 🛛 Hydrophobic	ed
This pure borosilicate glass micro fiber material is manufactured without the use of binders prior to or pulping or after wet-lay process. The media demonstrates excellent fine particle retention. High particle retention efficiency for filtration of large volumes. Softening point of glass fiber is 500°C, therefore upper limit temperature in use is 475°C. Low fiber shedding improves quality assurance of test results. High loading capacity. Fiber length easily allows for controlled fusing in well regulated heat treating processes to increase tensile strength as well as burn off organic extractables. Material is autoclavable on fine mesh support.			
Micron rating	Basis Weight	Caliper Thickness	Mean Pore Size
1.5	33.8	0.011	2.25
μm	lbs/3,000 ft TAPPI Method T410	inches - 4 psi TAPPI Method T411	μm
DOP Smoke Penetration	Air Flow Resistance	Tensile Strength MD	Tensile Strength CD
		5	
.04	-	8	6
.04 % at 0.3 μm @	- mm H <sub>2</sub> O @	8 Ibs / inches	6 Ibs / inches
.04 % at 0.3 μm @ 10.5 ft/minute	- mm H <sub>2</sub> O @ 10.5 ft/minute	8 Ibs / inches TAPPI Method T494	6 Ibs / inches TAPPI Method T494
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986	- mm H₂O @ 10.5 ft/minute ASTM Method D-2986	8 Ibs / inches TAPPI Method T494	6 Ibs / inches TAPPI Method T494
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD	8 Ibs / inches TAPPI Method T494 Frazier Permeability	6 Ibs / inches TAPPI Method T494 Gurley Stiffness
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD	8 Ibs / inches TAPPI Method T494 Frazier Permeability -	6 Ibs / inches TAPPI Method T494 Gurley Stiffness
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - %	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - %	8 Ibs / inches TAPPI Method T494 Frazier Permeability ft <sup>3</sup> / min / ft <sup>2</sup> @	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - % TAPPI Method T494	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - % TAPPI Method T494	8 Ibs / inches TAPPI Method T494 Frazier Permeability - ft <sup>3</sup> / min / ft <sup>2</sup> @ 0.5in H <sub>2</sub> O W.G.	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg TAPPI Method T543
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - % TAPPI Method T494	- mm H₂O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - % TAPPI Method T494	8 Ibs / inches 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	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg TAPPI Method T543
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - % TAPPI Method T494 Water Repellency	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - % TAPPI Method T494	8 Ibs / inches 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 Comments: Initial Filtration Speed	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg TAPPI Method T543 d (secs/100ml) = 49
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - % TAPPI Method T494 Water Repellency	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - % TAPPI Method T494 Ignition Loss Binderless	8Ibs / inchesTAPPI Method T494Frazier Permeability $ ft^3 / min / ft^2 @0.5in H_2 O W.G.ASTM Method F778-82Comments:Initial Filtration SpeedWet Burst (kPa) = 4.0Wot Burst (kPa) = 0.6$	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg TAPPI Method T543
.04 % at 0.3 μm @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation MD - % TAPPI Method T494 Water Repellency -	- mm H <sub>2</sub> O @ 10.5 ft/minute ASTM Method D-2986 Dry Elongation CD - % TAPPI Method T494 Ignition Loss Binderless % Loss	8Ibs / inchesTAPPI Method T494Frazier Permeability- $ft^3 / min / ft^2 @0.5in H_2O W.G.ASTM Method F778-82Comments:Initial Filtration SpeedWet Burst (kPa) = 4.0Wet Burst (psi) = 0.66Color white, surface st$	6 Ibs / inches TAPPI Method T494 Gurley Stiffness - mg TAPPI Method T543

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.

Rev. 3 Form Spec1