

**I.W. Tremont Co., Inc.**  
 18 Utter Avenue  
 Hawthorne, New Jersey 07506  
 Tel: 973-427-3800  
 Fax: 973-427-3778  
 www.iwtremont.com

## ANALYTICAL FILTER MEDIA Microfiberglass

### Typical Values

		Binderless				Hydrophobic	Binderless				Hydrophobic
Grade	A-88	A-83	B-95	B-72	B-84	B-85	C-42	D-23	E-13	E-15	
Description	<1 $\mu$ m	1 $\mu$ m	1 $\mu$ m	1-2 $\mu$ m	1-2 $\mu$ m	1 $\mu$ m	1-2 $\mu$ m	3-5 $\mu$ m	10-12 $\mu$ m	10-12 $\mu$ m	
<b>Basis Weight</b>											
<i>lbs/3000 ft<sup>2</sup></i>	41.0	45.0	47.0	37.0	37.0	48.0	125.0	58.0	50.0	50.0	
<i>gms/m<sup>2</sup></i>	66.9	73.4	76.7	60.4	60.4	78.3	204.0	94.7	81.6	81.6	
<b>Caliper</b>											
<i>inches</i>	0.013	0.016	0.016	0.013	0.013	0.018	0.045	0.020	0.018	0.018	
<i>mm</i>	0.33	0.41	0.41	0.32	0.32	0.46	1.14	0.51	0.46	0.46	
<b>DOP Smoke Penetration</b>											
<i>0.3 <math>\mu</math>m @10.5 ft/min</i>	0.0000%	0.001%	0.000%	0.010%	0.010%	0.008%	0.015%	3.0%	36.5%	36.5%	
<b>Air Flow Resistance</b>											
<i>mm H<sub>2</sub>O @ 10.5 ft/min</i>	N/A	51.0	52.5	36.0	36.0	37.0	36.0	15.0	5.0	5.0	
<b>Frazier Permeability</b>											
<i>ft<sup>3</sup>/min/ft<sup>2</sup> @0.5" H<sub>2</sub>O W.G.</i>	-	-	-	-	-	-	-	-	27.0	27.0	
<b>MD Strip Tensile</b>											
<i>lbs/in</i>	7.0	3.0	7.0	4.5	4.5	3.0	8.0	8.0	6.0	6.0	
<i>% Elongation</i>	2.0	2.5	2.0	1.5	1.5	2.5	1.5	1.5	1.5	1.5	
<b>Mean Pore Size</b>											
<i><math>\mu</math>m</i>	1.5	2.8	2.7	3.6	3.6	3.6	4.3	6.0	13.0	13.0	
<b>Ignition Loss</b>											
<i>% Loss</i>	5.0%	0.0%	5.0%	5.0%	5.0%	0.0%	5.0%	5.0%	5.0%	5.0%	
<b>Water Repellency</b>											
<i>inches H<sub>2</sub>O</i>	-	-	-	-	20.0	-	-	-	-	20.0	

#### Test Methods

Basis Weight: TAPPI Method T410  
 Strip Tensile/Elongation: TAPPI Method T494  
 Permeability: ASTM Method F778-82  
 DOP Smoke Penetration: ASTM Method D-2986

Caliper: TAPPI Method T411  
 Air Flow Resistance: ASTM Method D-2986  
 Gurley Stiffness: TAPPI Method T543

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**ANALYTICAL FILTER MEDIA**  
**One-side Laminated Microfiberglass**

**Typical Values**

<b>Grade</b>	<b>LA-88</b>	<b>LA-95</b>	<b>RG</b>	<b>Hydrophobic LB-84</b>	<b>LC-42</b>	<b>LD-23</b>	<b>LE-13</b>
<b>Description</b>	<b>&lt;1µm</b>	<b>1µm</b>	<b>1-2µm</b>	<b>1-2µm</b>	<b>1-2µm</b>	<b>3-5µm</b>	<b>10-12µm</b>
<b>Basis Weight</b>							
<i>lbs/3000 ft<sup>2</sup></i>	56.0	64.0	54.0	54.0	140.0	75.0	67.0
<i>gms/m<sup>2</sup></i>	91.4	104.4	88.1	88.1	228.5	122.4	109.3
<b>Caliper</b>							
<i>inches</i>	0.016	0.017	0.015	0.015	0.048	0.020	0.018
<i>mm</i>	0.41	0.43	0.38	0.38	1.22	0.51	0.46
<b>DOP Smoke Penetration</b>							
<i>0.3 µm @10.5 ft/min</i>	0.0000%	0.000%	0.015%	0.015%	0.010%	3.0%	32.5%
<b>Air Flow Resistance</b>							
<i>mm H<sub>2</sub>O @ 10.5 ft/min</i>	N/A	53.0	36.0	36.0	37.0	17.5	5.0
<b>Frazier Permeability</b>							
<i>ft<sup>3</sup>/min/ft<sup>2</sup> @0.5" H<sub>2</sub>O W.G.</i>	-	-	-	-	-	-	22.0
<b>MD Strip Tensile</b>							
<i>lbs/in</i>	7.0	7.0	4.5	4.5	8.0	8.0	6.0
<b>Mean Pore Size</b>							
<i>µm</i>	1.5	2.7	3.3	3.3	4.3	6.0	13.0
<b>Water Repellency</b>							
<i>inches H<sub>2</sub>O</i>	-	-	-	20.0	-	-	-

Basis Weight: TAPPI Method T410  
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 Permeability: ASTM Method F778-82  
 DOP Smoke Penetration: ASTM Method D-2986

Caliper: TAPPI Method T411  
 Air Flow Resistance: ASTM Method D-2986  
 Gurley Stiffness: TAPPI Method T543

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**ANALYTICAL FILTER MEDIA**  
**Two-side Laminated Microfiberglass**

**Typical Values**

	Hydrophobic						
<b>Grade</b>	<b>LL-82</b>	<b>LL-95</b>	<b>LL-72</b>	<b>LL-84</b>	<b>LL-42</b>	<b>LL-23</b>	<b>LL-13</b>
<b>Description</b>	<b>&lt;1µm</b>	<b>1µm</b>	<b>1-2µm</b>	<b>1-2µm</b>	<b>1-2µm</b>	<b>3-5µm</b>	<b>10-12µm</b>
<b>Basis Weight</b>							
<i>lbs/3000 ft<sup>2</sup></i>	81.0	81.0	71.0	75.0	155.0	92.0	84.0
<i>gms/m<sup>2</sup></i>	132.2	132.2	115.9	122.4	253.0	150.1	137.1
<b>Caliper</b>							
<i>inches</i>	0.018	0.018	0.017	0.017	0.052	0.023	0.022
<i>mm</i>	0.46	0.46	0.43	0.43	1.32	0.58	0.56
<b>DOP Smoke Penetration</b>							
<i>0.3 µm @10.5 ft/min</i>	0.000%	0.000%	0.010%	0.015%	0.010%	3.0%	32.5%
<b>Air Flow Resistance</b>							
<i>mm H<sub>2</sub>O @ 10.5 ft/min</i>	N/A	54.0	39.0	40.0	40.0	19.0	5.0
<b>Frazier Permeability</b>							
<i>ft<sup>3</sup>/min/ft<sup>2</sup> @0.5" H<sub>2</sub>O W.G.</i>	-	-	-	-	-	-	22.0
<b>MD Strip Tensile</b>							
<i>lbs/in</i>	7.0	7.0	4.5	4.5	8.0	8.0	6.0
<b>Mean Pore Size</b>							
<i>µm</i>	1.5	2.1	3.1	3.1	4.1	5.8	12.8
<b>Water Repellency</b>							
<i>inches H<sub>2</sub>O</i>	-	-	-	20.0	-	-	-

Basis Weight: TAPPI Method T410  
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