



**Grade 9003-X** (3 Micron)  
(Preliminary)

### Liquid Filtration

Epoxy bound microglass filtration media grades specifically designed to achieve the highest dirt holding while maintaining a low pressure differential in a pleated configuration. LyPore® Defender microglass filtration media are optimal when co-pleated with multiple support layers and can be used as the sole efficiency and dirt holding layer or in conjunction with a separate pre-filter. The epoxy binder is ideal for the most demanding fluid and temperature requirements.

Typical Properties	USA Units		Metric Units		Test Methods
Basis Weight	55	lbs/3000 ft <sup>2</sup>	92	grams/m <sup>2</sup>	T.A.P.P.I.–T-410 A.S.T.M.–D-646
Thickness	21	mils	0.51	mm	T.A.P.P.I.–T-411
Efficiency (Flat Sheet)					
Beta <sub>4μ</sub>	>5000	micron	>5000	micron	ISO-16889
Dirt Holding Capacity (Flat Sheet) 2 bar	81	mg/in <sup>2</sup>	125	grams/m <sup>2</sup>	ISO-16889
Air Resistance	20	mm H <sub>2</sub> O	196	Pa	MIL-STD-282 A.S.T.M.–D2986-91
Mean Flow Pore	4.3	micron	4.3	Micron	3GZ Porometer
Max Pore	14	micron	14	micron	3GZ Porometer

#### Features/Advantages:

- Lydall's highest dirt holding media
- Use in conjunction with pre-filter grade 9276-LS for even higher retention
- Exacting efficiency for desired particle size
- Easily withstands high pressures and flow rates
- Epoxy binder compatible with most fluids
- Sustained temperatures up to 450 °F (232 °C)

#### Applications:

- Hydraulic Oil
- Heavy Duty Lube
- Engine Oil
- Coolants
- Fuels
- Turbine Oil