I.W. Tremont
Technical and Specialty Papers
ISO 9001:2015 Registered

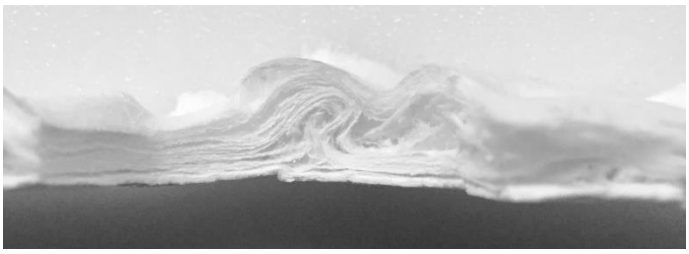
LabExact

Filtration Materials

MultiDensity™ 1000

Pre-Filtered Binderless Glass microfiber

The wavy pattern of the MultiDensity™ Filter Disk easily distinguishes the sample introduction side.



Cross section of the IW Tremont MultiDensity™ Filter Disk

The MultiDensity™ product platform now includes this easy to use, thinner[1] binderless glass microfiber filter which retains solids in a broad size range. Larger solids become entrapped on the built in pre-filter layer allowing the multiple density zones of filter to entrap finer solids rapidly and reliably. This yields a faster flow rate with higher fluidic capacity.

Nominal caliper Thickness (mm)	Basis Wt. (g/m2)	Air Flow Resistance (sec. / 100cc)	Particle Capture (µm)
0.8	171	60	1.0

Up to 4x capacity of traditional glass microfiber filters in same porosity range
- ✓ Handles larger sample volumes or samples with higher ratio of solids.
- ✓ Less frequent filter changes = fewer variables in sample prep.

100% binderless glass microfiber, formed to create a built-in pre-filter
- ✓ Lower extractables for better quality analysis.
- ✓ Wide ranging chemical compatibility borosilicate glass.

Finely controlled porosity for consistent and reproducible results
- ✓ Extends the life of a membrane when used in series.
- ✓ Disk to disk results are consistent.

Laser cut for decreased fiber shedding and increased handling stability
- ✓ Fibers on cutline are fused together to form an easy to handle disk.
- ✓ Fewer extraneous fibers to wash out into filtrate.

Ordering Information:

MultiDensity™ 1000

Catalog #:	**Description:**
MDD-1000-2500	MultiDensity™ Disk, 1.0micron final retention, 2.5cm dia, 20 per pack
MDD-1000-3500	MultiDensity™ Disk, 1.0micron final retention, 3.5cm dia, 20 per pack
MDD-1000-4700	MultiDensity™ Disk, 1.0micron final retention, 4.7cm dia, 20 per pack
MDD-1000-5500	MultiDensity™ Disk, 1.0micron final retention, 5.5cm dia, 20 per pack
MDD-1000-7000	MultiDensity™ Disk, 1.0micron final retention, 7.0cm dia, 20 per pack
MDD-1000-9000	MultiDensity™ Disk, 1.0micron final retention, 9.0cm dia, 20 per pack
MDD-1000-1100	MultiDensity™ Disk, 1.0micron final retention, 11.0cm dia, 10 per pack
MDD-1000-1250	MultiDensity™ Disk, 1.0micron final retention, 12.5cm dia, 10 per pack
MDD-1000-1420	MultiDensity™ Disk, 1.0micron final retention, 14.2cm dia, 10 per pack

The MultiDensity™ 1000 is part of a larger product platform including 150 SKU's. Please visit https://www.iwtremont.com/products/glass-microfiber for more information about the advantages of this unique filter media technology.

The borosilicate glass is highly resistive to aggressive solvents, acids[2] and base with a usable range of 0-14pH and a wide effective temperature range of -200 to 500°C. [3]

This material is offered in custom product variants and OEM.

Note:

1. *It is a thinner version than the standard MultiDensity™ filter which has a caliper thickness of 2.5 - 3.5mm and was designed to filter the most challenging samples.*
2. *Borosilicate glass microfiber filters are not compatible with hydrofluoric acid.*
3. *Maximum working temperature is <500°C. Borosilicate glass microfiber filters may become brittle and susceptible to cracking at < -100°C.*

Closest Known Competitive Cross Reference*:

GE Whatman GMF150

All technical data provided accurate at time of print and subject to change without notice.
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