

Nano-scale glass microfiber filter – Grade A83

Imagine the loading capacity of a binderless glass microfiber filter with the tightly regulated pore size of a microfiltration membrane.

Now it's possible with Grade A83.

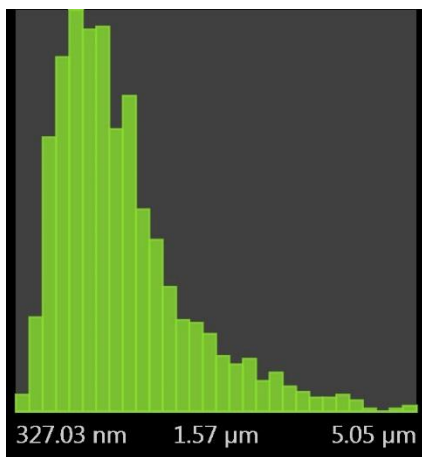
This new grade has a particle retention of 0.5 μ m. It has >20x loading capacity of an equivalent porosity MCE or CN membrane and >15x the flow rate.

Back pressure is nearly non-existent in comparison to surface membranes.

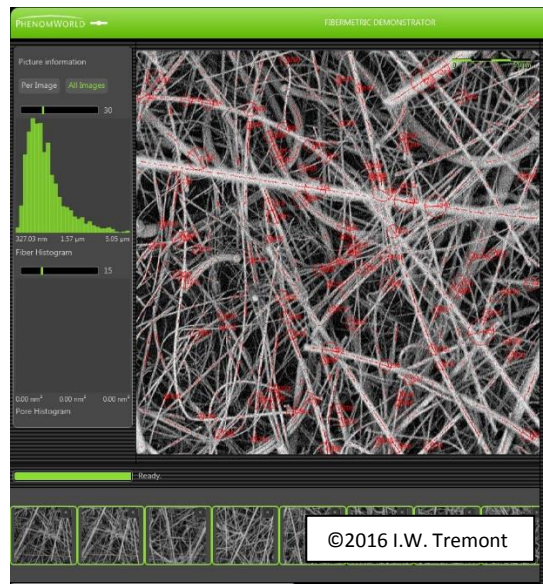
Chemically inert, pure binderless borosilicate glass with no sizing additives or other surfactants. Low background noise in LC/GC/MS and very low extractables in presence of aggressive solvents.

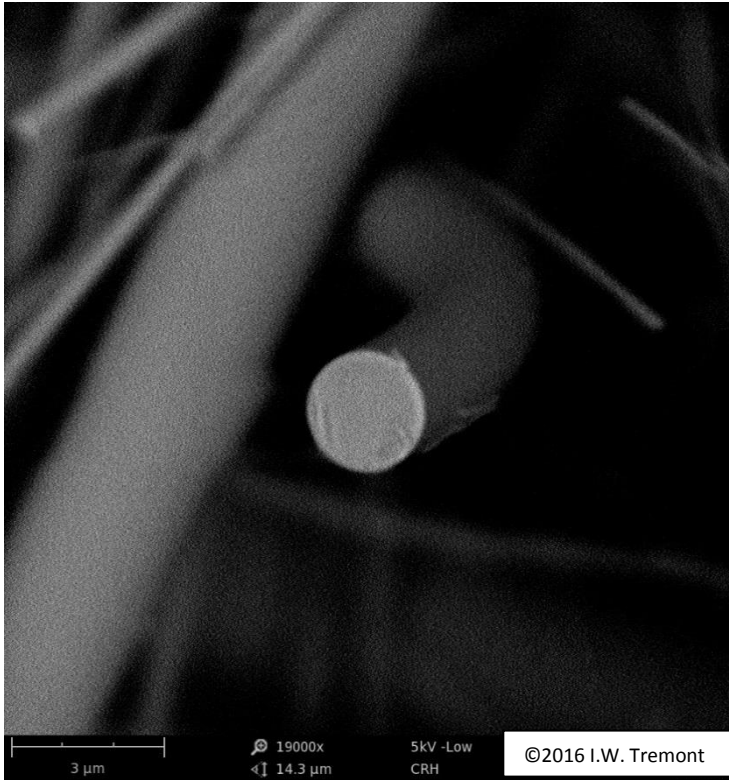
There are many filter materials which make the claim of “nano-scale” fiber, but Grade A83 is tested by an independent laboratory using the latest in fiber analysis and SEM image quantification.

With >85% of the fiber content between 300nm -100nm, this material is truly one of the highest surface area binderless glass microfiber products on the market today.



Fiber analysis conducted utilizing the latest Phenom SEM fiber Analysis Software.





Shown here, one of the largest diameter fibers in this grade illustrates a smooth sheath and uniform fiber geometry.

The smooth sheath of the glass fiber allows tight consolidation into a highly retentive filter mat.

This grade is highly consistent from lot to lot and similarly uniform in thickness and mass to other well-known Tremont grades such as Grade C or E.

High protein affinity and highly washable for separation recovery.

Excellent as a pre-filter for micro-porous membranes such as polymeric structures, track etched polycarbonates and other monolithic membrane materials.

Much wider degree of heat tolerance than any other polymeric membrane. Usable temperature to 500° C.

Chemically stable in presence of all acids with exception of hydrofluoric acid.

Catalog number	Description
A83-2100	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 2.1cm diameter
A83-2400	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 2.4cm diameter
A83-2500	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 2.5cm diameter
A83-3200	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 3.2cm diameter
A83-3500	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 3.5cm diameter
A83-3700	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 3.7cm diameter
A83-4250	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 4.25cm diameter
A83-4700	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 4.7cm diameter
A83-5500	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 5.5cm diameter
A83-7000	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 7.0cm diameter
A83-9000	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 9.0cm diameter
A83-1100	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 11.0cm diameter
A83-1250	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 12.5cm diameter
A83-1500	Binderless Grade A-83 glass fiber filter media, 0.5micron retention, 15.0cm diameter