



### Micro-Strand™ Glass Microfibers

100 and 200 Series

#### Description

Micro-Strand™ glass microfibers combine fine diameter with strength, consistency, and purity. They're the ideal choice for manufacturers of specialty glass paper or glass blends for use in ultra-high-purity air and liquid filtration. Micro-Strand's superior physical and chemical properties make it the best glass microfiber available. Johns Manville's newest technological advance, Micro-Strand CR™ was developed to reduce contamination from boron outgassing.

#### Uses

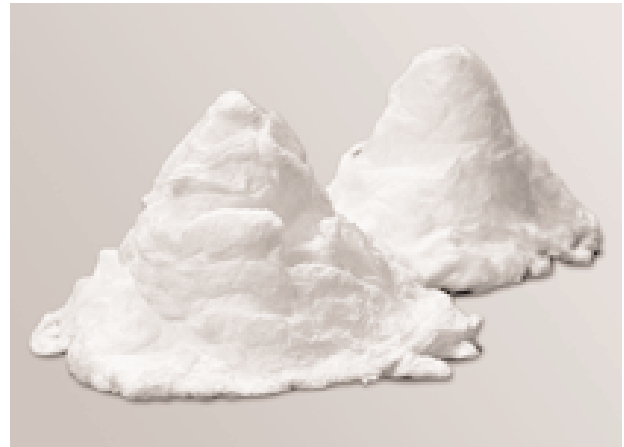
Micro-Strand is ideal for air and liquid filtration demanding the highest purity standards. An amorphous, exceptionally pure, fibrous silica material which is both low density and non-crystalline, Micro-Strand is furnished in bulk form for conversion to a wide variety of products. ASHRAE, HEPA, and ULPA filters are manufactured from Micro-Strand glass fiber, due to its fine diameter fibers and outstanding fiber density. For battery applications, Micro-Strand offers extraordinary chemical resistance with excellent electrolyte suspension.

Micro-Strand glass paper withstands high operating pressures in both liquid and air filtration applications. Blends of Micro-Strand microfiber are used in automotive applications to improve air, oil, and hydraulic fluid filtration, allowing improved engine performance and life. Micro-Strand CR is appropriate for clean room filters in the electronics industry, especially for chip manufacturing facilities.

#### Advantages

Micro-Strand glass fibers are produced with advanced process technology for a variety of advantages:

- The finest diameter and optimum fiber length in the industry
- Chemically-specific formulations for end-use compatibility
- Easy to disperse in both binder and binder-free applications
- Small media pore size for ultra-pure filtration applications
- Allows glass paper to be produced with superior fiber density, surface area, and tensile strength
- Long fiber for excellent entanglement and increased product tensile strength
- Exceptionally consistent to run smoothly on customer manufacturing lines



# Micro-Strand™ Glass Microfibers

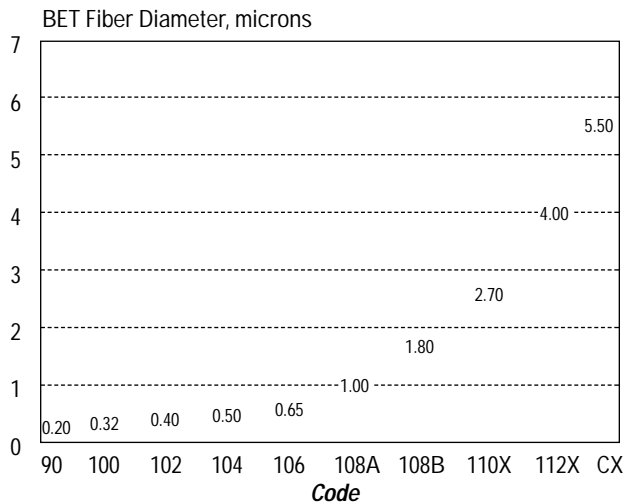
100 and 200 Series

Micro-Strand Glass Microfiber 100 Series

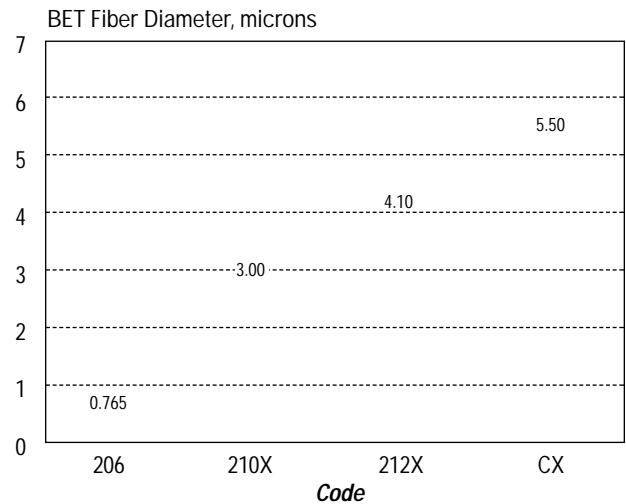
475 Chemical Composition	
Oxide	Nominal Wt., %
SiO <sub>2</sub>	58.3
Al <sub>2</sub> O <sub>3</sub>	5.8
B <sub>2</sub> O <sub>3</sub>	11.3
Na <sub>2</sub> O	10.1
K <sub>2</sub> O	2.9
CaO	1.8
MgO	0.3
BaO	5.0
ZnO	4.0

Micro-Strand Glass Microfiber 200 Series

253 Chemical Composition	
Oxide	Nominal Wt., %
SiO <sub>2</sub>	65.5
Al <sub>2</sub> O <sub>3</sub>	3.1
B <sub>2</sub> O <sub>3</sub>	5.3
Na <sub>2</sub> O	16.0
K <sub>2</sub> O	0.7
CaO	5.9
MgO	3.0
BaO	0.01



Surface Area = 1.54/diameter



Surface Area = 1.59/diameter

The physical and chemical properties of these Johns Manville products represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with your Johns Manville representative to assure current information. Johns Manville standard "Terms and Conditions" and "Limited Warranty" apply.



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