Glass Microfiber

DESCRIPTION

The unique properties of our glass microfiber products allow nonwovens producers to engineer superior products and solutions for high-efficiency filtration media, Absorbent Glass Mat (AGM) battery separator, and numerous other air and liquid filtration/separation applications. Utilizing the fine diameter, high specific surface area (SSA) and chemical properties of our fibers, our customers can optimize pore structure and mechanical properties of their specialty nonwovens.

GENERAL CHARACTERISTICS

Lauscha's Glass Microfbers have the following outstanding characteristics:

- Broad product range: Average fiber diameters from 0.25µm – 5.0µm
- High tensile strength, low shot, consistent glass chemistry and purity
- High specific surface area (SSA)
- Long length to diameter ratio (L:D)
- Multiple glass chemistries: A, B, C & E-glass
- Multiple fiberizing technologies available

TYPICAL APPLICATIONS

- Filtration media
- Battery separators
- Analytical papers
- Respirators and personal safety devices
- Fiber Reinforced Plastics (FRP)
- Surfacing veils
- Friction & absorbent materials
- Catalyst supports
- Cryogenic insulation

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

Contact Us

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LAUSCHA FIBER INTERNATIONAL

B-GLASS MICROFIBERS

Grade	Glass Chemistry	Nominal Fiber Diameter (microns)	Nominal SSA (m^2/g)	Fiberization Technology	Fiber Coating
B-X9-Fa	B	0.26 µm	6.20	Flame Attenuated	None
B-00-Fa	B	0.33 µm	4.80	Flame Attenuated	None
B-02-F	B	0.46 µm	3.50	Flame Attenuated	None
B-04-F	B	0.53 µm	3.00	Flame Attenuated	None
B-06-F	B	0.65 µm	2.47	Flame Attenuated	None
B-08-F	B	0.80 µm	2.00	Flame Attenuated	None
B-10-F	B	1.00 µm	1.60	Flame Attenuated	None
B-15-F	B	1.48 µm	1.08	Flame Attenuated	None
B-26-R	B	2.44 µm	0.66	Rotary	None
B-39-R	B	3.20 µm	0.50	Rotary	None
B-50-R	B	4.10 µm	0.42	Rotary	None
B-56-R	B	5.00 µm	0.35	Rotary	None

C-GLASS MICROFIBERS

Grade	Glass Chemistry	Nominal Fiber Diameter (microns)	Nominal SSA (m^2/g)	Fiberization Technology	Fiber Coating
C-04-F	C	0.53 µm	3.00	Flame Attenuated	None
C-06-F	C	0.65 µm	2.47	Flame Attenuated	None
C-08-F	C	0.80 µm	2.00	Flame Attenuated	None
C-10-F	C	1.00 µm	1.60	Flame Attenuated	None
C-15-F	C	1.48 µm	1.08	Flame Attenuated	None
C-18-R	C	1.80 µm	0.89	Rotary	None
C-26-R	C	2.44 µm	0.66	Rotary	None
C-39-R	C	3.20 µm	0.50	Rotary	None
C-50-R	C	4.10 µm	0.42	Rotary	None

A-GLASS MICROFIBERS

Grade	Glass Chemistry	Nominal Fiber Diameter (microns)	Nominal SSA (m^2/g)	Fiberization Technology	Fiber Coating
A-04-F	A	0.53 µm	3.00	Flame Attenuated	None
A-06-F	A	0.65 µm	2.47	Flame Attenuated	None
A-26-F	A	2.44 µm	0.66	Flame Attenuated	None

E-GLASS MICROFIBERS

Grade	Glass Chemistry	Nominal Fiber Diameter (microns)	Nominal SSA (m^2/g)	Fiberization Technology	Fiber Coating
E-04-Fa	E	0.56 µm	2.88	Flame Attenuated	None
E-06-F	E	0.65 µm	2.47	Flame Attenuated	None
E-08-F	E	0.80 µm	2.00	Flame Attenuated	None

TYPICAL CHEMICAL ANALYSIS

	Glass Composition			
	A	B	C	E
SiO_2	68.0 - 71.0	55.0 - 60.0	63.0 - 67.0	50.0 - 56.0
Al_2O_3	2.5 - 4.0	4.0 - 7.0	3.0 - 5.0	13.0 - 16.0
B_2O_3	<0.09*	8.0 - 11.0	4.0 - 7.0	5.8 - 10.0
Na_2O	10.5 - 12.0	9.5 - 13.5	14.0 - 17.0	<0.50
K_2O	4.5 - 6.0	1.8 - 4.0	< 2.0	<0.40
CaO	5.0 - 7.0	2.8 - 5.0	4.0 - 7.0	15.0 - 24.0
MgO	2.0 - 4.0	< 2.0	2.0 - 4.0	< 5.5
Fe_2O_3	<0.20	<0.20	<0.20	<0.50
ZnO	< 2.0	2.0 - 5.0	<0.10	<0.02
BaO	-	3.0 - 6.0	<0.10	<0.03
F_2	-	< 1.0	< 1.0	< 1.0
TiO_2	-	-	-	< 1.0

B_2O_3 contains 31.1% boron by weight. It follows that the maximum allowable boron content in A-Glass is 0.028%.

AVAILABILITY

Glass Microfibers are packaged in heavy duty UV stabilized plastic bags or pulpable paper bags. Each bale is labeled with product designation code, nominal weight and bale identification number. Depending on the method of transportation, bales are stretch wrapped in various sized units with thick plastic sheets on the bottom.

HANDLING INFORMATION

A Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.