



DESCRIPTION

Unifrax provides a range of solutions for cryogenic applications where weight and cost savings are crucial. Our C-Glass microfibers are engineered for wetlaid nonwovens producers to use as a raw material for the manufacturing of cryogenic insulation products. Our binder free cryogenic glass mat products provide tank manufacturers multiple options to reduce weight, and cost, in vacuum cooled environments where temperatures approach absolute zero.

GENERAL CHARACTERISTICS

- C-Glass composition
- Inorganic, non-combustible, binder free
- Cryogenic Glass Mat available with aluminium foil backing
- Double and Triple layer rolls available
- Light weight
- Less wraps required

TYPICAL APPLICATIONS

- Cryogenic insulation media
- Transportation and storage of cryogenic liquids (including Nitrogen, Oxygen, Argon, CO₂, Ethylene & Nitrous Oxide)
- Transportation and storage of Liquefied Natural Gas (LNG)

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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CRYOGENIC GLASS MAT

Description	Glass Chemistry	Nominal Fiber Diameter (microns)	Basis Weight (g/m ²)	Thickness (mm) Approximate	Roll Width (mm) Approximate
Double Layer	C	2.5 μm +/- 0.5 μm	100	20 mm	550 mm
Triple Layer	C	2.5 μm +/- 0.5 μm	150	30 mm	550 mm

Double layer mats with 50 m length, and triple layer mats available with 45 m length, both with 530 mm wide aluminum foil backing.

C GLASS MICROFIBERS

Grade	Glass Chemistry	Nominal Fiber Diameter (microns)	Nominal SSA (m ² /g)	Fiberization Technology	Fiber Coating
C-08-F	C	0.80 μm	2.00	Flame Attenuated	None
C-15-F	C	1.48 μm	1.08	Flame Attenuated	None
C-26-R	C	2.44 μm	0.66	Rotary	None
C-50-R	C	4.10 μm	0.42	Rotary	None

TYPICAL CHEMICAL ANALYSIS (WT%)

Glass Composition	
	C
SiO ₂	63.0 - 67.0
Al ₂ O ₃	3.0 - 5.0
B ₂ O ₃	4.0 - 7.0
Na ₂ O	14.0 - 17.0
K ₂ O	< 2.0
CaO	4.0 - 7.0
MgO	2.0 - 4.0
Fe ₂ O ₃	< 0.20
ZnO	< 0.10
BaO	< 0.10
F ₂	< 1.0

AVAILABILITY

Cryogenic Glass Mat is available protected in plastic bags and boxed in cardwood boxes. Double-layer 5 reels per box, Triple-layer 4 reels per box.

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.