



DESCRIPTION

Fiberfrax Castables are insulation materials which are composed of Fiberfrax refractory ceramic fibres blended with hydraulic setting binders. Water is added to these dry mixes (on site) and mixed to produce a cement like consistency, which upon setting produces a strong, rigid insulating shape. These versatile products are designed for casting or ramming applications such as casting shapes, coatings, linings and general refractory repairs.

GENERAL CHARACTERISTICS

Fiberfrax Castables have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Resistance to erosion
- Molten aluminium wetting resistance

TYPICAL APPLICATIONS

- Collector bar seals for aluminium reduction cells
- Lining of non-ferrous metal launder systems/casting ladles
- Lining of aluminium distributor troughs/pans
- Insulation for metal melting induction furnaces
- Repair of tin bath - Float glass production

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.

*Start saving energy now.
Contact your local distributor.*

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TYPICAL PRODUCT PARAMETERS

Fiberfrax	Castable KUB	Castable 110	Variform 110
Physical Properties			
Colour	Grey	Grey	Grey
Product Form	Dry Mix	Dry Mix	Dry Mix
Use Limit (°C) *	1100	1100	1100
Dry Density (kg/m ³)	1350-1550	1000-1400	800-1300
Thermal Conductivity (W/mK)			
Mean Temp.			
600 °C	0.23	0.22	0.18
800 °C	0.30	0.28	0.22
1000 °C	0.38	0.36	0.27

*The maximum continuous limit temperature for these products depends upon application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

INSTALLATION & MIXING PROCEDURES

Fiberfrax Castables require the correct amount of water to be added slowly to the dry mix until the material is uniformly blended. Over mixing will cause fibre breakdown and should be avoided. Small batches can be mixed by hand. Use of a cement or paddle mixer is recommended for larger batches.

Castable KUB is installed by ramming or pumping (Details of pumping equipment can be obtained from your nearest Unifrax Office).

Castable 110 & Variform 110 are designed for casting or ramming applications. They are easily poured or trowelled into place, tamping may help eliminate voids.

WATER QUANTITIES

	Water (litres) per bag
Fiberfrax Castable KUB	
for Ramming/Pumping	7.00
Fiberfrax Castable 110	
for Casting	16.25
for Ramming	10.00
Fiberfrax Variform 110	
Required Dry Density (kg/m ³)	
800	21.00
950	16.00
1100	12.00
1300	9.00

AVAILABILITY

Fiberfrax	Castable KUB	Castable 110	Variform 110
20kg Bags	✓		✓
25kg Bags		✓	

Shelf Life & Storage

Fiberfrax Castables can be stored for up to 6 months, if kept unopened in cool, dry conditions.

HANDLING INFORMATION

A Material 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.

Supplied by: