



DESCRIPTION

Isofrax Castables are insulation materials which are composed of Isofrax alkaline earth silicates 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

Isofrax 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: Castables

- Connection 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

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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.

TYPICAL PRODUCT PARAMETERS

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

*The maximum continuous use limit temperature for these products depends upon operating and 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

Isofrax 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 but a cement or paddle mixer is recommended for larger batches.

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

Isofrax Castable 110 is designed for casting or ramming applications. It is easily poured or trowelled into place and tamping may help eliminate voids.

WATER QUANTITIES

	Water (litres) per bag
Isofrax Castable KUB	
for Ramming/Pumping	7.00
Isofrax Castable 110	
for Casting	16.25
for Ramming	10.00

AVAILABILITY

Isofrax	Castable KUB	Castable 110
20kg Bags	✓	
25kg Bags		✓

Shelf Life & Storage

Isofrax Castables can be stored for up to 6 months, if kept unopened in cool, dry conditions. Storage at temperatures between 5°C and 20°C is recommended.

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:

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