

INSULFRAX™ LDS MOLDABLE

An addition to our Fibers product range, Insulfrax® is a revolutionary breakthrough in insulating materials technology. This high temperature vitreous wool has very high solubility in body fluids and hence has no hazard classification.

Insulfrax™ LDS Moldable is a new product from Unifrax. Based on a calcium-magnesium-silicate chemistry which produces products capable to withstand continuous operating temperatures up to 1100°C.

This versatile insulation product is used as cast shapes, coatings, linings and for general refractory repairs. It consists of Insulfrax fibers dispersed in a very sticky water based refractory binder requiring only drying to produce a hard surface, low thermal conductivity insulation. The putty-like consistency provides good wet adhesion of the Insulfrax™ LDS Moldable to the applied surface during drying, thereby assuring a good refractory bond.

General Characteristics

Insulfrax™ LDS Moldable has the following benefits:

- Excellent thermal insulation
- Low shrinkage
- Excellent adhesion to metal and refractory surfaces
- Air sets to a hard surface

Typical Applications

- Hot and cold patching of refractory cracks and fissures
- Trough linings for aluminium and other non-ferrous metals
- Coating for metal liners
- Turbine and exhaust insulation
- Patching around burner blocks
- Metal and spot welding
- Brazing and spot welding protection
- Refractory anchor insulation

Availability

- Insulfrax LDS Moldable is available in 2kg plastic sleeves, 4 kg and 20 kg pails.
- Pneumatic caulking guns to suit 2kg sleeves are available.



Typical Physical Properties

Colour	White	
Product Consistency	Tacky Putty	
Maximum Recommended Operating Temp	1100°C	
Wet Density	1350	kg/m ³
Dry Density	800	kg/m ³
Hot Gas Erosion Resistance	> 60	m/sec
Linear Shrinkage - 800°C	2	%
Linear Shrinkage - 1000°C	4	%

Thermal Conductivity Data (W/mK)

Mean Temp.	Insulfrax™ LDS Moldable
400°C	0.13
600°C	0.18
800°C	0.20
900°C	0.22

Installation Information

Insulfrax™ LDS Moldable can be easily installed using the approved equipment. Details of recommended applicator tools and caulking guns are available from your local Unifrax Sales Office. For first time users it is recommended to contact Unifrax for detailed installation advice.

Shelf Life

Insulfrax™ LDS Moldable can be stored for up to 6 months if kept unopened in cool, dry conditions. Excessive heat will shorten shelf life and freezing will damage the product. Storage between 5°C and 20°C is recommended.

Data are average results conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.