Product Information Sheet

INSULFRAX™ H BOARDS

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.

This product is based on a calcium-magnesium-silica chemistry, giving excellent thermal and physical stability up to 1100°C.
Insulfrax products can be used in a wide range of applications as thermal insulation, particularly in fire protection and in domestic appliances.
Insulfrax H Board is manufactured with a hardened skin, suitable for applications where high erosion resistance and excellent insulating properties are required.

General Characteristics

Insulfrax Boards have these outstanding characteristics:

- High temperature stability.
- Low thermal conductivity.
- Good flexural and compressive strength.
- Easy to saw, drill and die-cut.
- Excellent thickness control.
- Low warpage.
- Exceptional surface finish.

Typical Applications

- Rigid high temperature gaskets and seals.
- Domestic boiler heat exchanger linings.
- Trough/distribution linings for conveying aluminium.
- Fire protection systems.
- Heat shields for personnel protection.
- Flare stack linings.
- Hot gas duct linings.
- Launder back-up insulation
- Expansion joint gasketing
- Refractory backup for brick and castable.

Chemical Analysis

SiO_2	61.0 – 67.0
CaO	27.0 – 33.0
MgO	2.5 – 6.5
Al_2O_3	<1.0
Fe_2O_3	<0.6

Typical Physical Properties

Colour	Blueish-white
Classification Temperature	1100°C
Melting Point	>1330°C
Fiber Diameter	3.2 microns (mean)
Modulus of Rupture (as received)	> 10.27 x 10^5 Pa
Density	200 – 300 kg/m^3

Thermal Conductivity Data

Mean Temp	(W/mK)
400°C	0.06
600°C	0.09
800°C	0.14

Permanent Linear Shrinkage (24 hour soak)

1000ºC	<2.0%
1100ºC	<4.0%

Availability

- Standard size: 1000 x 500mm, 1000 x 1200mm
- Other sizes available on request, subject to order.

Standard Thickness (mm)	Quantity per carton
5	16
10	10
15	8
25	4
35	3
50	2

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

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