

INSULFRAX® FELT

Insulfrax® Felt is manufactured from alkaline earth silicate wool, blended with specially selected organic binders to give flexible felts with exceptional characteristics. Our advanced felting process ensures a lightweight, high strength product enhanced by low thermal conductivity and exceptional handling characteristics. Insulfrax® Felt is available in a range of thicknesses and sheet sizes.

General Characteristics

Insulfrax® Felt has the following outstanding characteristics:

- High temperature stability (up to 1200°C)
- Good handling strength
- Lightweight
- Excellent flexibility
- Easy to cut and shape

Typical Applications

- High temperature gaskets and seals
- Ingot mould liners
- Molten metal transfer systems (back-up insulation)
- Expansion joints

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.

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.

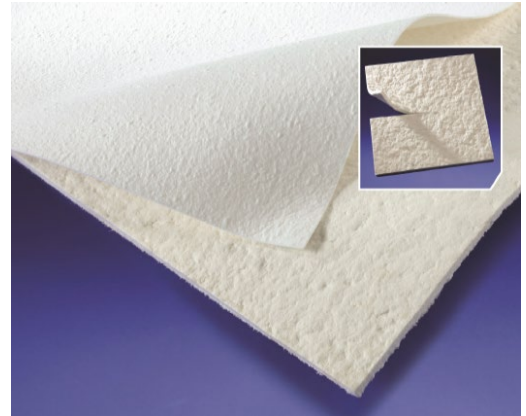
Typical Product Parameters

Typical Chemical Analysis (fibre wt. %)

SiO ₂	61,0 – 67,0
CaO	27,0 – 33,0
MgO	2,5 – 6,5
Al ₂ O ₃	< 1,0
Fe ₂ O ₃	< 0,6

Physical Properties

Colour	White/Tan
Melting Point	>1330°C
Product Density	170 – 270 kg/m ³
Tensile Strength	> 50 kPa
Classification Temp.*	1200°C
Loss on Ignition (wt. %)	< 10,0



Thermal Conductivity (W/mK)

Mean Temp.	
400°C	0,08
600°C	0,10
800°C	0,15
1000°C	0,20

Permanent Linear Shrinkage (%) 24 Hour Soak

1200°C	< 4,0
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*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact us. Where appropriate Physical Properties data measured according to EN 1094-1.

Availability

Thickness (mm)	Sheet Sizes	Sheets per Carton	
		1000 x 610 mm	1250 x 1000 mm
6	✓	16	16
9	✓	10	10
12	✓	8	8
18	✓	5	5
25	✓	4	4

Other thicknesses / sizes may be available on request subject to minimum order requirements