



## DESCRIPTION

Insulfrax Felt is manufactured from Insulfrax 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.

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

**Unifrax Ltd.**

T:+44 (0)1744 88 7600

F:+44 (0)1744 88 9916

[www.unifrax.com](http://www.unifrax.com)

**UNIFRAX**

## TYPICAL PRODUCT PARAMETERS

<i>Insulfrax Felt</i>	
<b>Typical Chemical Analysis (fibre wt. %)</b>	
SiO <sub>2</sub>	61.0 - 67.0
CaO	27.0 - 33.0
MgO	2.5 - 6.5
Al <sub>2</sub> O <sub>3</sub>	<1.0
Fe <sub>2</sub> O <sub>3</sub>	<0.6
<b>Physical Properties</b>	
Colour	White / Tan
Melting Point (°C)	>1330
Product Density (kg/m <sup>3</sup> )	170 - 270
Tensile Strength (kPa)	>50
Classification Temperature (°C) *	1200
Loss on Ignition (wt. %)	<10.0
<b>Thermal Conductivity (W/mK)</b>	
<b>Mean Temp.</b>	
400 °C	0.08
600 °C	0.10
800 °C	0.15
1000 °C	0.20
<b>Permanent Linear Shrinkage (%) 24 Hour Soak</b>	
1200 °C	<4.0

\*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 your nearest Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

## AVAILABILITY

Thickness (mm)	<i>Insulfrax Felt</i>	Sheets per Carton	
		Sheet Sizes	1000 x 610mm
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

## 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:

**Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.** Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited, Unifrax s.r.o.). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.