

# INSULFRAX 1300 HT BLANKETS

## Description

**Insulfrax 1300 HT blankets** represent the next generation of low bio-persistent (LBP) thermal insulation in our Insulfrax range. This new innovative product combines superior thermal performance with enhanced operating temperature capability. Insulfrax 1300 HT blanket, a lightweight needled blanket, is manufactured using proprietary fiberization techniques, offering both a 1300 grade classification and a use limit temperature in applications up to 1200°C.



**Insulfrax 1300 HT blankets** are manufactured from alkaline earth silicate (AES) wool, and provide effective solutions to a variety of thermal management challenges over a broad temperature range. Insulfrax 1300 HT blankets are completely inorganic and binder free with a smooth surface finish. Insulfrax 1300 HT blankets retain their strength, flexibility and thermal properties in many working environments without the generation of smoke or fumes. Insulfrax 1300 HT blanket has excellent chemical stability and is unaffected by most chemicals except hydrofluoric and phosphoric acids and concentrated alkalis. If wet by water or steam, thermal and physical properties remain unaffected after drying. Insulfrax 1300 HT blanket meets the requirements specified under Note Q of European Regulation 1272/2008 and therefore exonerated from labelling requirements in Europe.

## General Characteristics

**Insulfrax 1300 HT blankets** have the following outstanding characteristics:

- High temperature stability (up to 1300°C)
- Low thermal conductivity
- Thermal shock resistance
- High tensile strength & resiliency
- Lightweight
- Excellent flexibility
- Low heat storage

## Typical Applications

**Insulfrax 1300 HT blankets** are the product of choice for a wide range of applications in a number of industries.

- High-temperature furnace and kiln linings
- Furnace door linings and seals
- Boiler insulations
- Pipe and duct insulation
- Heat shields, seals and gaskets
- Carbon baking furnace covers
- Glass tank crown insulation
- Expansion joints

**Insulcon B.V. - Insulcon GmbH - Insulcon N.V. - Insulcon Projects SA**

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

Form: A1-053  
Effective: 19032025/ES  
supersedes: 23052023/PG/ka  
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## Typical Chemical Analysis (fibre wt. %)

SiO <sub>2</sub>	72.0 - 78.0
CaO + MgO	21.0 - 27.0
Other Oxides	<3.0

## Physical Properties

Colour	White
Classification Temperature (°C)*	1300
Use Limit (°C)*	1200
Mean Fibre Diameter (microns)	3.6

Permanent Linear Shrinkage (%) 24 hour soak EN 1094-1 1300 °C	3.4
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## Density (kg/m<sup>3</sup>)

	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>	160 kg/m <sup>3</sup>
Thermal Conductivity (W/mK) - ASTM C-201 Mean Temperature			
200°C	0.07	0.06	0.06
400°C	0.11	0.10	0.09
600 °C	0.17	0.16	0.15
800 °C	0.26	0.23	0.21
1000 °C	0.36	0.31	0.29
1200 °C	0.56	0.49	0.45
Tensile Strength (kPa)	44	58	62

\* The maximum continuous use limit temperature for these products depends upon operating and application conditions, and also the engineered design of the insulation lining. For additional information and support regarding product performance or to identify the recommended product for your application, please contact your nearest Insulcon Engineering office.

Data shown is based on average results of tests conducted under standard procedures and are subject to variation.

## Availability

Thickness	Density (kg/m <sup>3</sup> )			Roll length (m)
	96	128	160	
13 mm	✓	✓	*	12.50
19 mm	*	*	*	10.00
25 mm	✓	✓	✓	7.32
38 mm	✓	✓	*	5.00
50 mm	✓	✓	✓	3.66

Standard roll width is 610mm. Products in the table above listed with a checkmark are standard items. Products marked with an asterisk (\*) are not standard items but are available on request and may be subject to minimum order requirements.

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Other thicknesses, sizes and densities are available on request subject to minimum order requirements.

Versions with aluminium foil and other coverings are also available.

## Handling Information

A Safety Data Sheet (SDS) 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.

**Insulfrax 1300 HT fibres** have a high solubility in simulated body fluids and hence carries no hazard classification, meeting stringent European regulatory requirements. Insulfrax 1300 HT fibres are exonerated from classification as hazardous (tested according to Note Q Regulation (EC) No. 1272/2008).