

Product Information Sheet

Insulfrax® T Blanket

Insulfrax®

Description

Insulfrax® T Blanket is a lightweight, spun needled blanket, manufactured from alkaline earth silicate fibres. The blanket provides effective solutions to a variety of thermal management problems.

General Characteristics

Insulfrax T Blanket products have the following characteristics:

- High temperature stability
- Low thermal conductivity
- Thermal shock resistance
- Lightweight
- Low heat storage



Typical Applications

- High-temperature furnace and kiln linings
- Furnace door linings and seals
- Pipe and duct insulation
- Heat shields
- Seals and gaskets
- Carbon baking furnace covers
- Glass tank crown insulation

Information on other applications available upon request. Any new and/or special use of these products, whether or not in an application listed in our literature, is advised to be submitted to our Alkegen Application Engineering department for review and guidance on material selection.

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Typical Product Parameters

Insulfrax	T Blanket
Typical Chemical Analysis (fibre wt. %)	
SiO ₂	61.0 – 78.0
CaO + MgO	21.0 – 38.0
Other Oxides	< 3.0
Physical Properties	
Colour	White
Classification Temperature (°C)*	1200
Continuous Use Temperature (°C)**	1100
Mean Fibre Diameter (microns)	3.6
Permanent Linear Shrinkage (%) 24-hour soak EN 1094-1	
1200 °C	< 4.0
Density (kg/m³)	
128 kg/m³	
Thermal Conductivity (W/mK) – ASTM C-201	
Mean Temperature	
200°C	0.06
400°C	0.10
600°C	0.16
800°C	0.23
1000°C	0.31

* The Classification Temperature is not a definition of the operational temperature use limit of these products, especially when long-term physical or dimensional stability is a factor. The classification temperature is the temperature at which irreversible linear shrinkage does not exceed a given value after a 24-hour heat soak test. For applications where long-term stability is not a requirement, products may be successfully used at temperatures well in excess of their Classification Temperature. For continuous use applications requiring long-term stability, routine practice is to utilize materials in respect to their continuous use temperature.

** The Continuous Use Temperature is a recommended maximum operating temperature for the material usage under clean, oxidizing atmosphere conditions. For certain application conditions (specific chemical contaminants, reducing atmospheres, etc.), the Continuous Use Temperature may be reduced.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. For assistance or further clarification, please contact your nearest Alkegen Application Engineering office.

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Availability

Thickness (mm)	Density (kg/m ³)	Roll length (m)
25mm	128	7.32

Standard roll width is 610mm.

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

Health and Safety 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 fiber is an AES (alkaline earth silicate) wool that is exonerated from classification by virtue of Note Q, as detailed under regulation (EC) No 1272/2008 (CLP) and as such is considered to be a low bio-persistent (LBP) substance.

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