

INSULFRAX 1300 HT BLANKET

Description

Insulfrax® 1300 HT Blanket products represent the next generation of low bio-persistent (LBP) thermal insulation from Unifrax.

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 fibre 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 Blanket products 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



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Typical Chemical Analysis (fibre wt. %)

| | |
|------------------|-------------|
| SiO ₂ | 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 |
|--|-----|

Density (kg/m³)

| | 96 kg/m ³ | 128 kg/m ³ | 160 kg/m ³ |
|--|----------------------|-----------------------|-----------------------|
| 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.

| Thickness (mm) | Density (kg/m ³) | | | Roll length (m) |
|----------------|------------------------------|-----|-----|-----------------|
| | 96 | 128 | 160 | |
| 13mm | ✓ | ✓ | * | 14.64 |
| 19mm | * | * | * | 10.00 |
| 25mm | ✓ | ✓ | ✓ | 7.32 |
| 38mm | ✓ | ✓ | * | 5.00 |
| 50mm | ✓ | ✓ | ✓ | 3.66 |

Availability

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. Other thicknesses, sizes and densities are available on request subject to minimum order requirements. Versions with aluminium foil and other coverings are also available.

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