INSULFRAX® 1300 HT ANCHOR-LOC MODULES

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

TECHNICAL DATASHEET

LEADER IN HIGH TEMPERATURE SOLUTIONS

Description

Insulfrax® 1300 HT Anchor-Loc® Modules combine the performance features of the proven Anchor-Loc Module attachment systems with the utilisation of new Insulfrax 1300 HT low bio-persistent (LBP) fibre thermal insulation. Insulfrax 1300 HT is manufactured using enhanced fiberization techniques combined with advanced processing technology, offering a 1300°C grade classification and a use limit temperature for applications up to 1200°C. The needled blanket is completely inorganic and retains its strength, flexibility and thermal properties in many working environments without the generation of smoke or fumes.

Insulfrax 1300 HT blanket can be supplied in a variety of thickness and density combinations and to enable its use for a large range of high temperature applications. Insulfrax 1300 HT combines good tensile strength and excellent resilience making it a natural choice as feed stock for the manufacture of Anchor-Loc Modules. Insulfrax 1300 HT grade Anchor-Loc Modules are typically manufactured from fully edge-stacked or folded Insulfrax 1300 HT blanket. The fold location may be on the hot face or cold face of the module, subject to client preference. They can be produced in several design configurations. Insulfrax 1300 HT Anchor-Loc Modules are available with a choice of anchoring systems to enable quick, easy and efficient installation, providing an effective engineered solution for various lining applications.

General Characteristics

Insulfrax 1300 HT Anchor-Loc Modules have the following outstanding characteristics:

- High temperature stability (up to 1300°C)
- Low thermal conductivity
- Thermal shock resistance
- Low heat storage
- Lightweight
- Fast installation & selection of attachment systems

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, must be submitted to our technical department for their prior written approval.

Typical Applications

Insulfrax 1300 HT Anchor-Loc Modules are the product of choice for a wide range of applications in a number of industries.

- Heat treatment and forge furnaces
- Annealing furnaces
- Process heaters
- Ceramic tunnel kilns and intermittent kilns
- Stress relieving furnaces
- Door and cover linings
- Carbottom heating furnaces
- Stack, flue and duct linings
- Incinerators and boilers
- Ladle preheat stands

Form: A1-166
Effective: 11092025/AD/jj
Supersedes: 03012022/ka
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Typical Product Parameters

Insulfrax	**1300 HT**
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

Density (kg/m³)	**160 kg/m³**	**170 kg/m³**	**190 kg/m³**
Thermal Conductivity (W/mK) ASTM C201			
Mean Temperature			
200 °C	0.09	0.08	0.08
400 °C	0.12	0.11	0.11
600 °C	0.16	0.15	0.14
800 °C	0.20	0.19	0.17
1000 °C	0.27	0.25	0.22
1200 °C	0.35	0.33	0.28

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

Availability

Module Dimensions (mm)		
Length	**Width**	**Thickness**
300mm	**300mm**	**100 to 350mm**

Other densities, thicknesses, block sizes may be available on request subject to minimum order requirements.
Anchor systems available include:
RX2 = Side fixing system: Standard grade AISI 321
TL = Thread-Loc. Centre fixing system: Standard grade AISI 304
WL = Weld-Loc: Standard grade AISI 304
Other anchoring systems available subject to request.

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