

**INSULFRAX® S BLANKET****Insulfrax® S Blanket is the latest product in our soluble fibre product range.**

Following an extended period of development, Insulfrax® S Blanket represents a significant breakthrough for Insulcon's proprietary process technology. Insulfrax® S Blanket has high solubility in simulated body fluids and meets the appropriate European and German regulatory requirements\*. Insulfrax® S Blanket offers a high classification temperature combined with excellent tensile strength, handleability and low shot content, while retaining very good compressibility and flexibility. Insulfrax® S Blanket can be used in a wide range of applications as thermal insulation and is especially suited to use as high temperature wraps, heat shields and in sealing applications.



\* Under Note Q of EU Directive 67/548/EEC and TRGS 905.

**General characteristics**

INSULFRAX® S BLANKET has these outstanding characteristics;

- High temperature stability (up to 1200°C)
- Excellent handling strength
- Soft feel
- Low shot content
- Very good flexibility
- Excellent acoustic absorption capabilities

**Typical Chemical analysis** (fibre wt. %)

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

**Nb.** Insulfrax® S Blanket is designed for short-term use in applications up to its classification temperature of 1200°C. For those types of industrial applications, where long term stability is important, e.g. furnace/process heater linings, the operating temperature limits are typically reduced.

Form: A1-051  
Effective: 06032009/ES/ka  
Supersedes: 19062008/ES/ka  
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Page 1 of 2

LD date: Jan 2009

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification, and are not, in part or total, to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license.

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**Physical properties**

Colour	: White
Classification temperature	: 1200°C
Fibre diameter	: 3.0 microns (mean)
Product Density (nominal)	: 64, 96, 128 and 160 kg/m <sup>3</sup>
Tensile strength (128 kg/m <sup>3</sup> )	: 90 kPa

**Thermal conductivity data**

(W/mK)	64 kg/m <sup>3</sup>	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>	160 kg/m <sup>3</sup>
200°C Mean Temp.	0.07	0.07	0.06	0.06
400°C Mean Temp.	0.12	0.11	0.10	0.09
600°C Mean Temp.	0.18	0.17	0.16	0.15
800°C Mean Temp.	0.27	0.26	0.23	0.21
1000°C Mean Temp.	0.43	0.36	0.31	0.29

**Permanent linear shrinkage** (24 hour soak)

1200°C : < 4.0 %

Where appropriate physical properties and thermal conductivity data are measured according to ENV 1094 methods.

**Typical applications**

- Passive fire protection in marine, offshore and onshore environments
- Cogeneration and power plant duct linings
- Chimney insulation
- Process heater linings
- Heat shields
- Pipe wrap
- Annealing furnace linings
- Furnace and kiln back-up insulation
- Storage heater insulation
- Aluminium transfer launder coves
- Maintenance blanket in steel works
- Mould wrap
- Weld stress relief
- Glass lehr linings

**Availability (standard products)**

Thickness	13 mm	25 mm	38 mm	50 mm
<b>Roll length (m)</b>				
Width				
610 mm	14.64	7.32	5.0	3.66
1220 mm	14.64	7.32	5.0	3.66

Other thickness/width/length sizes may be available on request subject to a minimum order requirement.

**Handling information**

A Material Safety Datasheet is available for this product.

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