



DESCRIPTION

Insulfrax[®] S Blankets are lightweight needled blankets manufactured from Alkaline Earth Silicate (AES) wool to have Low Bio Persistence (LBP) and provide effective solutions to a variety of thermal management applications. Insulfrax[®] S Blankets are completely inorganic and so retain their strength, flexibility and thermal properties in most working environments, without generation of smoke or fumes. Insulfrax[®] S Blanket meets European regulatory requirement (Directive 97/69/EC).

Available in a range of density and thickness combinations, Insulfrax[®] S Blankets can be used in a wide variety of applications and are especially suited to use as high temperature wraps and heat shields.

GENERAL CHARACTERISTICS

Insulfrax[®] S Blanket has the following outstanding characteristics :

- High temperature stability (up to 1200°C)
- Resistance to thermal shock
- Good handling strength
- Excellent flexibility
- Good sound absorption

TYPICAL APPLICATIONS

- Heaters, Furnaces, Kiln, Reformers, Ovens
- Cogeneration and power plant duct linings
- Passive fire protection
- Investment Castings
- Acoustic Insulation
- Pipe, duct and chimney insulation
- Heat shields
- Mould wrap insulation
- Domestic Appliances

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.

*greener
cleaner
safer*
specialty fibers for
a greener, cleaner, safer world

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UNIFRAX

TYPICAL PRODUCT PARAMETERS

Insulfrax® S Blanket				
Typical Chemical Analysis (wt.%)				
CaO	27 - 33			
MgO	2 - 7			
SiO ₂	61 - 67			
Al ₂ O ₃	< 1			
Fe ₂ O ₃	< 0.6			
Physical Properties				
Colour	White			
Classification Temperature (°C)	1200			
Maximum Use Limit (°C)	1100			
Melting Point (°C)	> 1310			
Mean Fibre Diameter (microns)	3 - 5			
Fibre Index (%)	48 Min			
Shot Content (ASTM) (%)	8 - 14			
Specific Gravity	2.65			
Permanent Linear Shrinkage (%) 24 hour soak				
1200 °C	1			
Density (kg/m ³)	64	96	128	160
Thermal Conductivity, ASTM C-177 (W/mK)				
Mean Temp.				
400 °C	0.12	0.11	0.10	0.09
600 °C	0.18	0.17	0.16	0.15
800 °C	0.27	0.26	0.23	0.21
1000 °C	0.43	0.36	0.31	0.29
Tensile Strength (kPa)				
	30	50	70	90

AVAILABILITY

Thickness (mm)	Density (kg/m ³)				Roll Length (m)
	64	96	128	160	
13		✓	✓	✓	7.32
25	✓	✓	✓	✓	7.32
38	✓	✓	✓	✓	4.88
50	✓	✓	✓	✓	3.66

Standard roll width is 610mm or 1220mm. Other thicknesses / sizes may be available on request subject to minimum order requirements. Versions with aluminium foil and other coverings are available subject to minimum order requirements.

HANDLING INFORMATION

A Material Safety Data Sheet 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.

Thermal Conductivity figures are empirical values (average) based on experience.

Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

Supplied by:

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