Product Information Sheet

Insulfrax® WR Blanket

Description

Insulfrax WR Blanket is a water repellent, lightweight, flexible needled blanket manufactured from Insulfrax alkaline earth silicate wool. Specially developed to resist water ingress, Insulfrax WR Blanket is especially suited for fire protection in offshore and other high humidity environments. Available in a variety of density and thickness combinations, WR blankets provide effective solutions in a variety of high temperature applications.

General Characteristics

Insulfrax WR Blanket has these outstanding characteristics :

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

Typical Applications

- Fire partitions
- Fire door infill
- Deck and bulkhead fire protection
- Penetration seals
- Vessel and pipe work fire protection
- Structural steel and valve protection
- Core Insulation for Jacketing

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.

Availability

Thickness (mm)	Density (kg/m³)		Roll Length (m)
	96	128	
25	✓	✓	7.32
38	✓	✓	5.00
50	✓	✓	3.66

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

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Typical Product Parameters

Insulfrax WR Blanket	
Typical Chemical Analysis (wt.%)	
SiO_2	61.0 - 67.0
CaO	27.0-33.0
MgO	2.5-6.5
Al_2O_3	<1.0
Fe_2O_3	<0.6
Water repellent coating	<1.0

Physical Properties	
Colour	White
Classification Temperature (°C) *	1200
Melting Point (°C)	>1330
Mean Fibre Diameter (microns)	3.0
Water Absorption (% by weight)	<5.0

Thermal Resistance 'R' Values (m^2K/W)	
Blanket Thickness (mm)	
25	0.73
38	1.10
50	1.46
75	2.19
100	2.93

*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 Alkegen Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1. Water Absorption measured according to BS 2972: 1989:Section 12. For thermal resistance values the thermal conductivity of 96kg/m^3 density blanket was measured to BS 874: 1986:Section 2.1.

Handling 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 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 biopersistent (LBP) substance.

For additional information about product performance or to identify the recommended product for your application, please contact Alkegen Fire Protection Application Engineering at 716-768-6298.

Form A-5226
Effective 06/23

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