Saffil Blanket

DESCRIPTION

Saffil Blankets are high temperature, lightweight, needled blankets manufactured from high purity polycrystalline wool with a polypropylene carrier to optimise strength and flexibility. Designed for use up to 1600°C, Saffil Blankets can be used in a wide variety of applications. They are especially suited to environments where the presence of “shot' (unfiberised particles) is undesirable or where resistance to corrosive agents is essential.

GENERAL CHARACTERISTICS

Saffil Blanket has the following outstanding characteristics:

- High temperature stability (up to 1600°C)
- Low thermal conductivity
- Virtually ‘shot’ free
- Resistance to thermal shock & chemical attack
- High tensile strength & resiliency
- Insoluble in water
- Suited to veneer and anchored modules

TYPICAL APPLICATIONS

- High temperature furnace, boiler & kiln linings
  - Blast, forging, re-heat & heat treatment
  - Ethylene, catalyst & sulphur heaters and reformers
  - Porcelain, refractory, laboratory & dental kilns
- Speciality applications
  - Acoustic insulation
  - Semiconductor processing & fuel cell components

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TYPICAL PRODUCT PARAMETERS

	Saffil Blanket
Typical Chemical Analysis (fibre wt. %)	
Al_2O_3	95 - 97
SiO_2	3 - 5
Trace	<0.5
Physical Properties	
Colour	White
Classification Temperature (°C) *	1600
Loss on Ignition (wt. %)	
from Fibre	0
from Blanket +	<5
Median Fibre Diameter (microns)	3 - 4
Product Density (kg/m^3)	96
Specific Heat at 1000°C (J/kgK)	1000
Thermal Conductivity (W/mK)	
Mean Temp.	
800 °C	0.16
1000 °C	0.23
1200 °C	0.32
Permanent Linear Shrinkage (%) 6 Hour Soak	
1500 °C	<4

*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.

+Upon initial firing of the blanket a small amount of organic burnout will occur due to the polypropylene carrier.

AVAILABILITY

Thickness (mm)	Roll Width (mm)	Roll Length (m)
13	610	14.6
25	610	7.3

All product dimensions provided are nominal dimensions.

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.

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