Product Information Sheet

Saffil®

Saffil Paper

Description

Unifrax Saffil Paper products are manufactured from high purity polycrystalline wool, blended with specially selected organic binders to give a flexible paper with exceptional characteristics. This high temperature paper can be exposed to temperatures up to 1600°C, has excellent chemical resistance and is virtually free of 'shot' (unfiberised particles). Advanced production techniques ensure a highly uniform structure enhanced by low thermal conductivity, good handling strength and a smooth surface. Saffil Papers are available in a range of thicknesses and roll sizes.

General Characteristics

Saffil Paper has the following outstanding characteristics:

- High temperature stability (up to 1600°C)
- Resistance to chemical attack
- Good handling strength
- Excellent flexibility
- Easy to wrap, cut and shape

Typical Applications

- High temperature expansion joints and seals
- Laboratory furnace linings
- Separation media for metal/ceramic processes
- Battery and electrical equipment insulation

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.

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Typical Product Parameters

Saffil Paper	
Typical Chemical Analysis (fibre wt. %)	
Al_2O_3	90.0
SiO_2	8.0
Trace	2.0
Physical Properties	
Colour	White
Product Density (kg/m^3)	140 – 200
Classification Temperature (°C)*	1600
Loss on Ignition (wt. %)	~7
Thermal Conductivity (W/mK)	
Mean Temp.	
600°C	0.16
800°C	0.20
1000°C	0.24
Permanent Linear Shrinkage (%) 24 Hour Soak	
1600°C	<4.0

*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. Where appropriate Physical Properties data measured according to EN 1094-1.

Availability

Thickness (mm)	Roll Width (mm)	Roll Length (m)
1	550	19
2	550	19
3	550	19

Other thicknesses/sizes may be available on request 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.

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