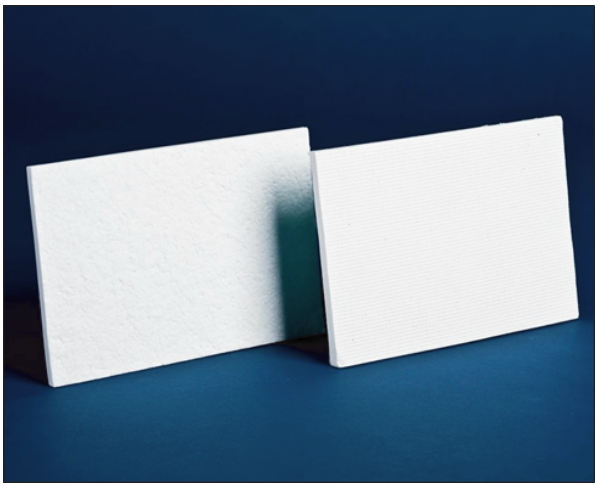
Product Information Sheet

Saffil Felt

DESCRIPTION

Saffil Felt is manufactured from high purity polycrystalline wool, blended with specially selected organic binders to give flexible felts with exceptional characteristics. Designed for use up to 1600°C, the resultant sheets are intumescent, self-supporting and lightweight with exceptional thermal performance characteristics. Upon initial firing, the organic binder burns out completely at temperatures in excess of 400°C and an expansion in the product's thickness occurs.



GENERAL CHARACTERISTICS

Saffil Felt has the following outstanding characteristics:

- High temperature stability (up to 1600°C)
- Low thermal conductivity
- Virtually 'shot-free'
- Resistance to thermal shock & chemical attack
- Excellent flexibility & high temperature resiliency
- Insoluble in water
- Expansion up to 3 times original thickness

TYPICAL APPLICATIONS

- Expansion joints in industrial furnace linings
- Strips in new fibre module linings to overcome shrinkage
- Gap filling for lining maintenance/repair
- High temperature gaskets and seals

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TYPICAL PRODUCT PARAMETERS

Saffil Felt	
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
Product Density (kg/m³)	160
Product Thickness (mm)+	7
Loss on Ignition (wt. %)	
from Fibre	0
from Felt	<12

*The Classification Temperature is not a definition of the operational temperature use limit of these products, especially when long-term physical or dimensional stability is a factor. The classification temperature is the temperature at which irreversible linear shrinkage does not exceed a given value after a 24-hour heat soak test. For applications where long-term stability is not a requirement, products may be successfully used at temperatures well in excess of their Classification Temperature. For continuous use applications requiring long-term stability, routine practice is to utilize materials in respect to their continuous use temperature.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. For assistance or further clarification, please contact your nearest Alkegen Application Engineering office.

+Thickness variation can be +/- 2mm on nominal.

AVAILABILITY

Thickness (mm)	Sheets per Carton
Sheet Size (mm)	700 x 550
7	20

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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Alkegen

Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6500
Website: www.alkegen.com
Email: info@alkegen.com

European Office
Glasshouse, Alderley Park
Nether Alderley
Cheshire
SK10 4TG
United Kingdom
Customer service email:
customerserviceeurope@alkegen.com