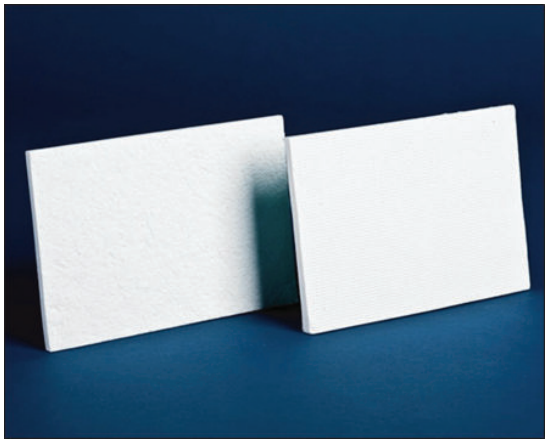
Product Information Sheet

Saffil® 97 Felt

DESCRIPTION

Saffil 97 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 (2912°F), 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 (752°F) and an expansion in the product's thickness occurs.



GENERAL CHARACTERISTICS

Saffil 97 Felt has the following outstanding characteristics:

- High temperature stability (up to 1600°C (2912°F))
- Expansion up to 3 times original thickness
- Excellent flexibility & high temperature resiliency
- Low thermal conductivity
- Virtually 'shot-free'
- Resistance to thermal shock & chemical attack
- Insoluble in water

TYPICAL APPLICATIONS

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

Information on other applications is available upon request. Any new and/or special use of these products, whether in an application listed in our literature, is advised to be submitted to our Alkegen Application Engineering department for review and guidance on material selection.

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TYPICAL PRODUCT PARAMETERS

	Saffil 97 Felt
Physical Properties	
Color	White
Classification Temperature*	1600°C (2912°F)
Density, kg/m³ (lb/ft³)	160 (10)
Nominal Thickness**, mm (in)	7 (0.28)

Chemical Properties	
Typical Fiber Chemical Analysis (wt. %)	
Al_2O_3	97
SiO_2	3
Trace Elements	< 0.5

Loss On Ignition (wt. %)	< 12

SIZE & AVAILABILITY

Thickness, mm (in)	Width, mm (ft)	Length, mm (ft)
7 (0.28)	550 (1.80)	700 (2.30)

NOTE: Standard size shown above comes in 20 sheets per carton.
Other dimensions may be available, but subject to minimum order quantities.

*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.
**Thickness variation can be +/- 2mm (1/16") on nominal.
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.

HEALTH AND SAFETY 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.

The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.
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Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

Form A-5475
Effective 02/25
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