FIBERCON EXPANDABLE (EXP) FELT 1600

Fibercon Expandable 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, selfsupporting 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.



Cold

Hot

General Characteristics

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Fibercon Expandable 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

Typical Applications

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Typical product parameters

Typical Chemical Analysis (fibre wt.%)	
Al ₂ O ₃	95-97
SiO ₂	3-5
Trace	<0,5

<u>Physical Properties</u> Colour Classification Temperature (°C)* Product Density (kg/m³) Product Thickness (mm)

White 1600 160 4 mm (Tolerances +/-0,5 mm) 7 mm (Tolerances ±2 mm) Through post-treatment, more 'accurate' thicknesses are on request.

Insulcon B.V.- The Netherlands - Tel: +31 (0) 167 565750 Insulcon GmbH - Germany - Tel: +49 (0) 2131 408548-0 Insulcon N.V. - Belgium - Tel: +32 (0) 3 711 02 78 Insulcon Projects S.A. - Switzerland - Tel: +41 (0) 91911739-0



EADER IN HIGH TEMPERATURE SOLUTIONS

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Loss on ignition (wt.%)	
from fibre	0
from Felt	<12

*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.

Availability

Sheet size	Sheets per Carton
705 x 570 mm	40
700 x 550 mm	20
1360 x 860 mm	20 or 24
	<u>Sheet size</u> 705 x 570 mm 700 x 550 mm 1360 x 860 mm



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