

# 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, 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.



Cold

Hot

## **General Characteristics**

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

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## **Typical product parameters**

### Typical Chemical Analysis (fibre wt.%)

Al <sub>2</sub> O <sub>3</sub>	95-97
SiO <sub>2</sub>	3-5
Trace	<0,5

### Physical Properties

Colour	White
Classification Temperature (°C)*	1600
Product Density (kg/m <sup>3</sup> )	160
Product Thickness (mm)	4 mm (Tolerances +/-0,5 mm) 7 mm (Tolerances ±2 mm)

*Through post-treatment, more 'accurate' thicknesses are on request.*

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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

Thickness (mm)	Sheet size	Sheets per Carton
4	705 x 570 mm	40
7	700 x 550 mm	20
7	1360 x 860 mm	20 or 24

