

## Kaowool Flexi-Felt



### TYPE

Refractory Ceramic Fibre Felt

### CLASSIFICATION TEMPERATURE

1250°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Morgan Thermal Ceramics distributor for advice.

### DESCRIPTION

Kaowool Flexi-Felt is manufactured from high purity refractory fibres and designed for high temperature insulation up to 1260°C with a minimum addition of carefully selected bonds.

Kaowool Flexi-Felt exhibits excellent strength, flexibility and is pleasant to handle, cuts cleanly and is ideally suited for the manufacture of the most intricate die-cut shapes and gaskets, even in thin section, and is available in roll form which permits maximum material utilisation offering improved flexibility to the die-cutter. Other beneficial properties include low thermal conductivity, low thermal mass and exceptionally high thermal shock resistance.

### APPLICATIONS

- Expansion joints for refractory bricks
- High temperature gaskets
- Investment casting mould wrapping
- Back-up lining
- Combustion chamber lining
- Thermal shields

## Kaowool Flexi-Felt

Main properties		
Classification temperature	°C	1250
Typical Physical Properties		
Colour		White
Density	kg/m <sup>3</sup>	128
Melting point (minimum)	°C	1760
Tensile Strength	kN/m <sup>2</sup>	550
Mean fibre diameter	Microns	2-3
Binder content/loss on ignition	%	7
Shrinkage (4 hours at 1260°C)	%	3

Indicative heat loss table:

Emissivity	0.9, Ambient	Temp 27°C	Still Air
Hot Face	Thickness		
	3mm	6mm	9mm
500°C	250	205	173
750°C	385	315	264
1000°C	495	415	350
1250°C	-	525	449

Chemical Composition		
Alumina	%	46-52
Silica	%	48-54
Trace inorganics	%	<0.5

### Combustibilité

Alumino-Silicate refractory fibres are non-combustible when tested in accordance with BS 476, Part 4.

### Availability and Packaging

Standard roll widths: 610mm and 1220mm.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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