

KAOFIL Fibres

DESCRIPTION

KAOFIL is a mouldable form of Kaowool Ceramic Fibre which can be injected into cracks and voids, using a hand-held pressure gun. It is very sticky and adheres well to both dense and light-weight substrates.

After drying, KAOFIL is a hard, strong, yet light-weight insulating material which is thermally stable up to 1000°C and can be used in some applications up to 1250°C.

Resistance to cracking and spalling is excellent and it is resistant to most forms of chemical attack, other than from Phosphoric and Hydrofluoric Acids and concentrated Alkali solutions.

TYPE

Gunnable Mastic based on Refractory Ceramic Fibres.

CLASSIFICATION TEMPERATURE:

1260°C

MAXIMUM USE TEMPERATURE

The normal long-term use temperature is 1000°C, though this can be exceeded in some applications. If in doubt, consult your Thermal Ceramics distributor.

BENEFITS

- Ease of application
- High temperature stability
- Low thermal conductivity
- Low heat storage
- Very resistant to thermal shock
- Good erosion resistance

APPLICATIONS

- Grouting around insulating bricks
- Filling cup-locks
- Patching and making good refractory insulating linings
- Patching and repair of refractory fibre
- Launderers and linings of Ladles in non-ferrous applications

KAOFIL Fibres

Main properties			
Classification temperature	°C	1260	
Properties Measured under Ambient Conditions (23°C/50% RH)			
Colour		white	white
Density - Wet	kg/m ³	1380	1440
Density - Dry	kg/m ³	610	680
Moisture content	%	50	52
High Temperature Properties			
Loss on ignition (after drying)	%	4.5	5.5
Linear shrinkage:			
dried 110°C	%	0.8	1.0
fired 1000°C	%	2.3	2.7
Modulus of Rupture:			
dried 110°C	MPa	2.25	-

Availability and Storage

KAOFIL is normally available in 300ml cartridges, which fit standard injector guns, but other unit quantities can be supplied, on request.

The shelf life, un-opened and if stored in cool dry conditions (above 10°C and below 50°C), is 3 to 6 months.

Installation

The cartridge is fitted into the gun, the cartridge nozzle pierced and the KAOFIL injected into the crack or void. Although it can then be left to air-dry, the best results are obtained with forced-air drying (with hot-air blowers) at 60°C to 100°C, ensuring free egress of the water content.

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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