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Contact your local distributor.*

Unifrax Ltd.

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DESCRIPTION

Fiberfrax Flexiform shapes are manufactured from Fiberfrax refractory ceramic fibres, blended with specially selected organic binders to give flexible insulating shapes with exceptional characteristics. The vacuum forming manufacturing method permits considerable freedom to vary shape, thickness and density. Fiberfrax Flexiform shapes often provide the most economical answer to producing large quantities of parts in simple or complex configurations for a wide range of high temperature applications.

GENERAL CHARACTERISTICS

Fiberfrax Flexiform shapes have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Lightweight
- Complex shape capability

TYPICAL APPLICATIONS

- Expansion joints
- Pipe insulation
- Catalytic converter insulation
- Stopper rod gaskets
- Furnace skid rail insulation

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

FIBERFRAX FLEXIFORM

Fiberfrax Flexiform shapes are highly flexible products manufactured using blends of high temperature fibres and selected organic binders. This high degree of flexibility gives excellent compressive recovery characteristics and ease of installation in applications where a rigid shape would prove unsuitable. Various formulations are available to cover a range of application temperatures and requirements.

TYPICAL PRODUCT PARAMETERS

<i>Flexiform</i>	<i>HD</i>	<i>Z</i>	<i>1500</i>
Typical Chemical Analysis (fibre wt.%)			
SiO ₂	50.0 - 58.0	52.0 - 56.0	28.0 - 32.0
Al ₂ O ₃	42.0 - 50.0	28.0 - 32.0	58.0 - 62.0
ZrO ₂	-	14.0 - 18.0	6.0-10.0
Alkalis	<0.25	<0.25	<0.25
Fe ₂ O ₃ + TiO ₂	<0.20	<0.20	<0.20
Physical Properties			
Colour	White	White	White
Classification Temperature (°C) *	1250	1400	1500
Density (kg/m ³) †	180-300	180-300	110-200
Loss on ignition (wt.%)	<10	<10	<10
Thermal Conductivity (W/mK)			
Mean Temp.			
600 °C	0.11	-	-
800 °C	0.14	0.15	-
1000 °C	0.19	0.10	0.20
1200 °C	-	0.29	0.28
1400 °C	-	-	0.38

*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 operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

†Density is indicative and relates to product characteristics before any secondary treatment. Actual density is dependent on piece size and geometry.

Where appropriate Physical Properties data measured according to EN 1094-1.

AVAILABILITY

Fiberfrax Flexiform shapes are engineered to specific customer requirements and are therefore made to order. Please contact your local Unifrax sales office to discuss your particular requirements. Flexiform shapes are typically available in thicknesses ranging from 5mm to 100mm depending on the size and profile of the piece.

Packaging is either in cardboard cartons or shrink wrapped on pallets.

HANDLING 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.

Supplied by: