

SAFFIL 1600 BULK FIBRES

Saffil 1600 Bulk Fibres are high purity polycrystalline wools, designed for use in high temperature applications up to 1600°C. Saffil is produced by a unique solution extrusion process which ensures the highest level of chemical purity and lowest level of 'shot' (non-fibre particles). Available in a variety of grades, Saffil Bulk Fibres are used to overcome problems in demanding industrial environments and many other specialty applications.



General characteristics

Saffil 1600 Bulk Fibres have the following outstanding characteristics:

- High temperature stability (up to 1600°C)
- Low thermal conductivity
- Virtually 'shot' free
- Resistant to thermal shock
- High purity & low silica ensure chemical resistance
- Easily reprocessed
- Insoluble in water

Typical applications

- Wet forming of boards, shapes & papers
- Expansion joint packing
- Loose insulating fill for voids
- Textile manufacture
- Reinforcement for cements and mortars

	LA	HA	HX
Typical Chemical Analysis (fibre wt. %)			
Al ₂ O ₃	95 - 97	95 - 97	95 - 97
SiO ₂	3 - 5	3 - 5	3 - 5
Trace	<0.5	<0.5	<0.5

Physical Properties	LA	HA	HX
Colour	White	White	White
Melting Point (°C)	>2000	>2000	>2000
Classification Temperature (°C) *	1600	1600	1600
Median Fibre Diameter (microns)	3 - 4	3 - 4	3 - 4
Fibre Density (g/cm ³)	3.3 - 3.5	3.3 - 3.5	3.3 - 3.5

*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. For assistance or clarification please contact your nearest Insulcon office.

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SAFFIL 1600 BULK FIBRES

Permanent Linear Shrinkage (%) 6 Hour Soak			
	LA	HA	HX
1500 °C	<4	<2	<1

Grade	Comments		
	Chemical resistance	Fibre Strength	Shrinkage
LA	Good	Excellent	Good
HA	Very Good	Very Good	Very Good
HX	Excellent	Good	Excellent

Availability

Saffil Bulk Fibres are available as standard in 5kg polythene bagged bales.

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.