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Unifrax Ltd.

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DESCRIPTION

Fiberfrax Cloth, Tape and Sleeving products are high temperature fabrics manufactured from Fiberfrax refractory ceramic fibres. Therefore they possess all the high temperature and superior properties of Fiberfrax fibres and are suited for use in a wide range of industrial applications. The range is composed of two basic product lines, Fiberfrax and Fibersil™. Fiberfrax Cloth, Tape and Sleeving products are available in a range of sizes and thicknesses.

GENERAL CHARACTERISTICS

Fiberfrax Cloth, Tape and Sleeving products have the following outstanding characteristics:

- High temperature stability
- Resistance to thermal shock and chemical attack
- Excellent handling strength
- Easy to wrap, cut and shape

TYPICAL APPLICATIONS

- High temperature gasket and wrapping material
- Cable and wire insulation
- Welding curtains and blankets
- Furnace curtains and heat zone separators
- Expansion joints
- Fire protection systems

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.

PRODUCT RANGE

Fiberfrax Cloth, Tape and Sleeving are textiles that are woven or braided from yarn, consisting of refractory ceramic fibre with approximately 20% organic carrier fibres. Other materials are incorporated into the yarn to increase tensile strength. Alloy wire inserts (Grade MR) are available for obtaining maximum strength at elevated temperatures. Glass filament inserts (Grade GR) are used in applications where electrical resistance is required. Fiberfrax textiles may be used up to 1250°C, however when tensile strength is important the temperature limits of the insert materials should be considered.

Fibersil Cloth is supplied with little or no organic carrier, resulting in exceptionally low out-gassing and smoke generation upon initial heating. Consequently this product is especially suited to fire protection applications and for hot wrapping of cables, pipes and ducts. Fibersil is only available with alloy wire reinforcement. Fibersil cloth has Class 0 flame spread and smoke development to ASTM E-84.

TYPICAL PRODUCT PARAMETERS

	<i>Fiberfrax Cloth, Tape & Sleeving</i>	<i>Fibersil Cloth</i>
Physical Properties		
Colour	White	Brown
Basic Composition	Alumina-Silica	Alumina-Silica
Organic Carrier (approximate %)	20	< 2
Reinforcement	Glass filament or Alloy wire	Alloy wire
Use limit (°C) *	1250	1250
Temperature limits of Inserts (°C)		
Glass Filament	650 (GR grade)	-
Alloy Wire	1090 (MR grade)	1090
Cloth & Tape Weight (g/m ²)	1000 (2mm) 1500 (3mm) 2500 (5mm)	1187
Sleeving Density (kg/m ³)	300 - 600	-

*The maximum continuous limit temperature for these products depends upon application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office. Where appropriate Physical Properties measured according to EN 1094-1.

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.

AVAILABILITY

Width (mm)	Roll Length (m)	Thickness (mm)		
		2	3	5
Fiberfrax Cloth (Grades GR & MR)				
1000	30	✓	✓	
Fiberfrax Tape (Grades GR & MR)				
20	25	✓	✓	
30, 40, 50, 60, 80, 100	25	✓	✓	✓
120	25	✓	✓	
Internal Diameter (mm)	Roll Length (m)	Thickness (mm)		
		4		
Fiberfrax Sleeving (Grades GR & MR)				
8, 10, 12, 15, 20, 25, 30, 35, 40, 50, 60	25		✓	
Width (mm)	Roll Length (m)	Thickness (mm)		
		2.8		
Fibersil Cloth				
1000	50 *		✓	

*Fibersil cloth is available in part roll lengths subject to minimum order value.

Supplied by: