

Typical Product Properties

Fiberfrax Cloth

Fiberfrax cloth is available in the following types:

Type	Standard Width	Nominal Thickness	Insert Material	Temperature Limit of Insert	Weight kg/m	Weight (lb/lin yd)
L-126	914 mm (36")	3.2 mm (1/8")	Glass	649°C (1200°F)	1.3	(2.7)
L-144	914 mm (36")	3.2 mm (1/8")	Metal alloy	982°C (1800°F)	1.3	(2.7)

Fiberfrax Tape

Fiberfrax tape is available in the following types:

Type	Standard Widths	Nominal Thickness	Insert Material	Temperature Limit of Insert
L-126	25, 51, 76 mm (1", 2", 3")	3.2 mm (1/8")	Glass	649°C (1200°F)
L-144	13, 25, 51, 76, 152 mm (1/2", 1", 2", 3", 6")	3.2 mm (1/8")	Metal alloy	982°C (1800°F)

Fiberfrax Sleeving

Fiberfrax sleeving is available in the following types:

Type	Standard Sizes	Wall Thickness	Insert Material	Temperature Limit of Insert
HP-126	25, 38, 51 mm I.D. (1", 1 1/2", 2" I.D.)	3.2 mm (1/8")	Glass	649°C (1200°F)
HP-144	13, 19, 25, 38, 51, 63, 76 mm I.D. (1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3" I.D.)	3.2 mm (1/8")	Metal alloy	982°C (1800°F)

Fibersil™ Cloth

Fibersil cloth is a high-performance industrial grade ceramic fiber fabric for use in high-temperature applications. Made from Fiberfrax yarns, it exhibits good resistance to abrasion and mechanical abuse, and is wire reinforced for high strength retention at elevated temperatures.

Lightweight Fibersil cloth is easy to fabricate, has low shrinkage, and remains flexible after high temperature exposure.

The superior insulating qualities of Fibersil cloth make it effective for energy-saving zoning curtains in furnaces and flexible entrance and exit barriers in continuous ovens.

Fibersil cloth provides excellent protection from molten metal splash, and can be used in welding and metal cutting applications.

Fibersil cloth contains less than 2% organic carrier and will shrink less than 1% at 982°C (1800°F).

Fibersil Cloth

Typical Product Properties

Temperature Grade:	1260°C (2300°F)
Recommended Operating Temperature:	982°C (1800°F)
Thickness:	2.8 mm (.110 in)
Weight:	1187 g/m ² (35 oz/yd ²)
Insert Material:	Metal alloy wire
Weave:	Plain
Width:	914 mm (36 in)
Roll Size:	42 m ² (50 yd ²)
Flammability (ASTM E-84):	Flame spread: 0 Smoke developed: 0
Shrinkage at 982°C (1800°F):	1%



Fibersil Cloth

Typical Fibersil Applications

- Expansion joints
- Furnace curtains (entrance, exit barriers)
- Personnel and equipment protection
- Slow cool blankets
- Welding blankets

Fiberfrax® Yarn

Fiberfrax yarn is a 1260°C (2300°F) ceramic fiber product which can be woven into numerous forms for industrial applications. Products made from Fiberfrax yarn are strong, chemically stable and exhibit superior insulating qualities.

Fiberfrax yarn contains approximately 20% organic carrier and is spun around metal alloy wire or monofilament glass strands. These inserts provide maximum tensile strength at elevated temperatures. In applications where tensile strength is important, the temperature limit of the insert material should be considered.

Typical Fiberfrax Yarn Applications

- Fiberfrax cloth, tape, sleeving
- Flexible braided wire covers



Fiberfrax Yarn

Typical Product Parameters

Type	Ply	Insert Material	Temperature Limit of Insert	Diameter	Tex* g/1000m	Yields (Linear Weight):	
						m/kg ± 15%	yd/lb ± 15%
11	1	Glass	649°C (1200°F)	2 mm (3/32")	1078	928	460
12	2	Glass	649°C (1200°F)	3 mm (1/8")	1858	539	267
14A	1	Metal alloy	982°C (1800°F)	2 mm (3/32")	1085	922	457
14	2	Metal alloy	982°C (1800°F)	3 mm (1/8")	1858	539	267

*Unifrax is capable of manufacturing a wide range of yarn weights and diameters (500-2000 Tex). Contact your Unifrax Sales Engineer or Unifrax Application Engineering Group at 716-768-6460 for additional information.

Flexweave™ 1000 Cloth and Tape

Flexweave 1000 cloth and tape form a product line consisting of exceptionally durable woven textiles made from textured fiberglass. Recommended for continuous use to 538°C (1000°F), they are excellent insulators possessing very low thermal conductivity.

Flexweave 1000 textiles exhibit high dielectric strength and a low dielectric constant. They resist abrasion and fraying.

In addition to being highly resistant to chemical attack, Flexweave 1000 cloths and tapes are non-toxic, will not flash or smolder and are reusable. They are also wettable and mildew resistant.

Flexweave cloth is made from specially treated yarns to prevent unravelling during cutting and fabrication.

Flexweave 1000 cloth is easily sewn and is ideal for fabricating products such as curtains and blankets.

All Flexweave 1000 tape is coated with an acrylic coating to enhance handling properties. The acrylic coating dissipates at 315-370°C (600-700°F) with no adverse effects on the properties of the cloth.

Flexweave 1000 Cloth Typical Product Properties

Construction:	Plain weave	
Temperature Grade:	538°C (1000°F)	
Breaking Strength		
(Grab method):	Warp direction	Filling direction
Type FW-24:	2364 N (531.3 lb f)	2047 N (460.1 lb f)
Type FW-30:	1983 N (445.6 lb f)	1454 N (326.8 lb f)
Type FW-35:	1871 N (420.4 lb f)	1320 N (296.6 lb f)
Type FW-40:	2879 N (647.0 lb f)	1998 N (449.0 lb f)
Weight:*		
Type FW-24:	622 g/m ² (24 oz/yd ²)	
Type FW-30:	778 g/m ² (30 oz/yd ²)	
Type FW-35:	907 g/m ² (35 oz/yd ²)	
Type FW-40:	1037 g/m ² (40 oz/yd ²)	
Roll Length:*	45.7 m (50 yds)	
Width* (measured between selvage edges):	1016 mm and 1524 mm (40" and 60")	

*Normal manufacturing tolerances on roll length, weight and thickness are ±10%. Tolerance on width is ±2%.

For non-standard widths, contact Unifrax Customer Service.

Flexweave 1000 Tape
Typical Product Properties

Construction:	Plain weave
Temperature Grade:	538°C (1000°F)
Density: 1.6 mm (1/16"):	Nominal 816.9 kg/m ³ (51 lb/ft ³)
3.2 mm (1/8"):	Nominal 640.7 kg/m ³ (40 lb/ft ³)
Abrasion Resistance (ASTM D-1175):	
1.6 mm (1/16"):	Average cycles before wear through: 308
3.2 mm (1/8"):	Average cycles before wear through: 778
Thicknesses:	1.6 mm (1/16") 3.2 mm (1/8")
Widths:	25, 38, 51, 64, 76, 89, 102 mm (1", 1½", 2", 2½", 3", 3½", 4")
Length:	30.48 m (100')

Typical Flexweave 1000 Cloth and Tape Applications

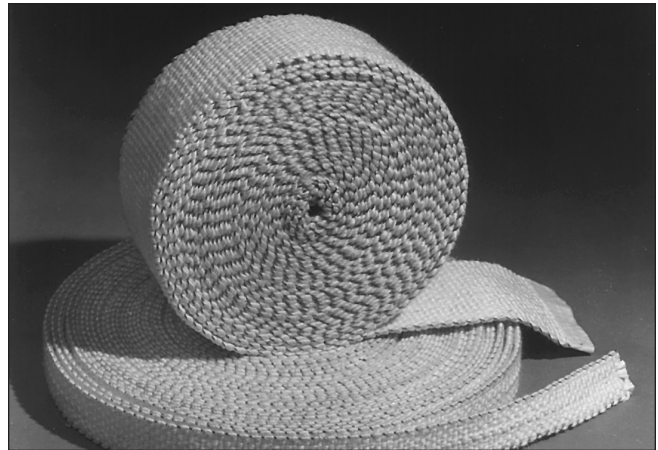
- Personnel protection
- Envelopes for stress-relieving blankets
- Welding curtains
- Pipe wrapping
- Steam tracing lines
- Furnace door gaskets
- Pipe and boiler lagging

For additional information about product performance or to identify the recommended product for your application, please contact the Unifrax Application Engineering Group at 716-768-6460.

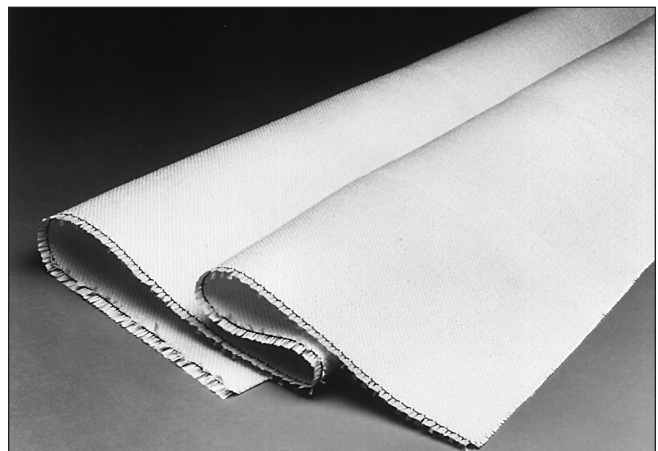
Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Fiberfrax® Ropes, Braids and Wicking

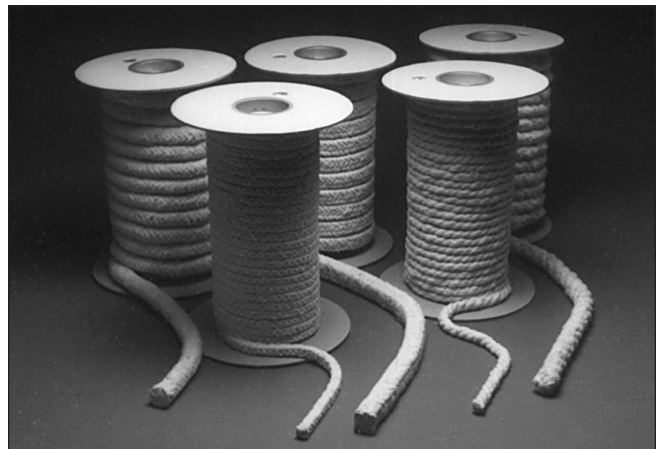
In addition to the Fiberfrax woven products, the Fiberfrax textile product family also contains a variety of ropes, braids and wicking products. These products are dense, resilient, ceramic fiber materials, widely used for a broad variety of high-temperature gasketing, packing, and sealing applications. For additional details on the available product forms, typical properties or applications for which they are appropriate, refer to Fiberfrax Ropes, Braids and Wicking, Product Information Sheet, Form C-1426.



Flexweave 1000 Tape



Flexweave 1000 Cloth



Fiberfrax Ropes and Braids

