

## Fiberglass Knitted Sleeve: Premium Grade

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods

**DeltaGlass™ Very High Temperature & Heat Resistant Knitted Sleeve for  
Wire, Cable, Hose & Pipe / Tube protection and Personnel Burn Protection**



This Knitted fiberglass sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C.

This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable.

The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.

Knitted or Braided Fiberglass Sleeve is typically used to protect pipes, hoses, cables and wires from high temperatures up to 1200°F / 648°C continuous use.

1200°F / 648°C continuous rating, high insulation value & excellent personnel burn protection.

Knitted sleeve has an advantage over braided sleeve, as it is dimensionally stable and only minimally expandable compared to braided sleeve – it conforms well to the object over which it is placed without clamping to hold it onto the object.

This sleeve is commonly used to protect wire, cables and hoses from heat exposure. The construction of the sleeve provides a high bulk, ensuring a high insulation value. It can also be used in multiple layers to increase the total insulation value. Conversely, this sleeve can protect personnel from contact burns due to hot process hoses, tubing or lines.

The total sleeve thickness necessary to drop the surface temperature to the 140°F hot surface incidental contact temperature (OSHA generally accepted value) varies with the temperature of the hose or tube, the fluid flow rate, and ambient temperature; but as a general rule, a pipe or tube at 1000°F will require a 1" thickness of fiberglass insulation.

DeltaGlass™ Very High Temperature & Heat Resistant Knitted Fiberglass Sleeve – Premium Grade							
ID Size inch / mm / dash#			Part Number	ID Size inch / mm / dash#			Part Number
1/2"	13	-08	S-FG-KNIT-M013-08	2 1/4"	57	-36	S-FG-KNIT-M057-36
5/8"	16	-10	S-FG-KNIT-M016-10	2 1/2"	64	-40	S-FG-KNIT-M064-40
3/4"	19	-12	S-FG-KNIT-M019-12	2 3/4"	70	-44	S-FG-KNIT-M070-44
7/8"	22	-14	S-FG-KNIT-M022-14	3"	76	-48	S-FG-KNIT-M076-48
1"	25	-16	S-FG-KNIT-M025-16	3 1/4"	83	-52	S-FG-KNIT-M083-52
1 1/4"	32	-20	S-FG-KNIT-M032-20	3 1/2"	89	-56	S-FG-KNIT-M089-56
1 3/8"	35	-22	S-FG-KNIT-M035-22	3 3/4"	95	-60	S-FG-KNIT-M095-60
1 1/2"	38	-24	S-FG-KNIT-M038-24	4"	102	-64	S-FG-KNIT-M102-64
1 3/4"	44	-28	S-FG-KNIT-M044-28	4 1/2"	114	-72	S-FG-KNIT-M114-72
1 7/8"	48	-30	S-FG-KNIT-M048-30	5"	127	-80	S-FG-KNIT-M127-80
2"	51	-32	S-FG-KNIT-M051-32	6"	152	-96	S-FG-KNIT-M152-96

Minimum order is 25 feet

DeltaGlass™ Knitted or Braided Fiberglass Sleeving is typically used to protect hoses, cables and wires from high temperatures up to 1200°F / 648°C continuous use.

Fiber Type: E Glass

Specific Gravity: 2.54-2.69

Breaking Tenacity: 1.71 gf/TEX. Std. 1.71 gf/TEX Wet

Tensile Strength: 450,000-500,000 psi.

Breaking Elongation: 4.81% Std. 4.81% Wet

Elastic Recovery: 100%

Average Stiffness: 2824.3 cn/TEX

Effect of Heat: Will not burn; Retains 75% tensile at 343°C; Softens at 732-877°C; Melts at 1121-1182°C

Effect of Acids and Alkalies; Resistance to acids is fair. Good resistance to most alkalies.

Effect of Bleaches and Solvents: Unaffected

## Fiberglass Braided Sleeve: Premium Grade

**1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods**

**DeltaGlass™ Very High Temperature Heat Resistant Braided Sleeve for Wire, Cable, Hose & Pipe / Tube protection and Personnel Burn Protection**



This Braided fiberglass sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C.

This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable.

The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.

1200°F / 648°C continuous rating, high insulation value & excellent personnel protection

Both a Heat Treated and Heat Treated with Acrylic Saturant version of this product is available – please enquire.

Braided sleeve has the ability to expand and contract a nominal amount, if expanded then the coverage of the braid is lower than if the sleeve is contracted.

This sleeve is commonly used to protect wire, cables and hoses from heat exposure. The construction of the sleeve provides a high bulk, ensuring a high insulation value. It can also be used in multiple layers to increase the total insulation value. Conversely, this sleeve can protect personnel from contact burns due to hot process hoses, tubing or lines.

The total sleeve thickness necessary to drop the surface temperature to the 140°F hot surface incidental contact temperature (OSHA generally accepted value) varies with the temperature of the hose or tube, the fluid flow rate, and ambient temperature; but as a general guide, a pipe or tube at 1000°F will require a 1" thickness of fiberglass insulation.

DeltaGlass™ Very High Temperature & Heat Resistant Braided Fiberglass Sleeve - Premium Grade							
ID Size inch / mm / dash#			Part Number	ID Size inch / mm / dash#			Part Number
3/8	10	-06	S-FG-BRAID-M010-06	1 7/8"	48	-30	S-FG-BRAID-M048-30
1/2"	13	-08	S-FG-BRAID-M013-08	2"	51	-32	S-FG-BRAID-M051-32
5/8"	16	-10	S-FG-BRAID-M016-10	2 1/4"	57	-36	S-FG-BRAID-M057-36
3/4"	19	-12	S-FG-BRAID-M019-12	2 1/2"	64	-40	S-FG-BRAID-M064-40
7/8"	22	-14	S-FG-BRAID-M022-14	2 3/4"	70	-44	S-FG-BRAID-M070-44
1"	25	-16	S-FG-BRAID-M025-16	3"	76	-48	S-FG-BRAID-M076-48
1 1/4"	32	-20	S-FG-BRAID-M032-20	3 1/4"	83	-52	S-FG-BRAID-M083-52
1 3/8"	35	-22	S-FG-BRAID-M035-22	3 1/2"	89	-56	S-FG-BRAID-M089-56
1 1/2"	38	-24	S-FG-BRAID-M038-24	3 3/4"	95	-60	S-FG-BRAID-M095-60
1 3/4"	44	-28	S-FG-BRAID-M044-28	4"	102	-64	S-FG-BRAID-M102-64

DeltaGlass™ Knitted or Braided Fiberglass sleeve is typically used to protect hoses, cables and wires from high temperatures up to 1200°F / 648°C continuous use.

Fiber Type: E Glass

Breaking Tenacity: 1.71 gf/TEX. Std. 1.71 gf/TEX Wet

Breaking Elongation: 4.81% Std. 4.81% Wet

Average Stiffness: 2824.3 cn/TEX

Effect of Heat: Will not burn; Retains 75% tensile at 343°C; Softens at 732-877°C; Melts at 1121-1182°C

Effect of Acids and Alkalies; Resistance to acids is fair. Good resistance to most alkalies.

Effect of Bleaches and Solvents: Unaffected

Specific Gravity: 2.54-2.69

Tensile Strength: 450,000-500,000 psi.

Elastic Recovery: 100%

## Fiberglass Braided Sleeve: Industrial Grade

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods

**DeltaGlass™ Very High Temperature & Heat Resistant**



- DeltaGlass™ Braided Industrial sleeve
- Available in Thin Wall (1/16") and Thick Wall (1/8").

This braided sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C.

This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable. The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.

A Heat Treated version of this product is available – please enquire

1200°F / 648°C continuous rating, high insulation value & excellent personnel protection

DeltaGlass™ Very High Temperature & Heat Resistant Fiberglass Braided Sleeve - Industrial Grade					
Part Number	Size inch / mm / -dash			Thin Wall	Thick Wall
				Feet / Metres per spool	Feet / Metres per spool
S-FG-BI-M006-04-X	.250	6	-4	1400 / 426	700 / 213
S-FG-BI-M010-06-X	.375	10	-6	1400 / 426	600 / 182
S-FG-BI-M013-08-X	.500	13	-8	1000 / 304	330 / 100
S-FG-BI-M016-10-X	.625	16	-10	900 / 274	315 / 96
S-FG-BI-M019-12-X	.750	19	-12	750 / 228	300 / 91
S-FG-BI-M022-14-X	.875	22	-14	650 / 198	300 / 91
S-FG-BI-M025-16-X	1.000	25	-16	500 / 152	290 / 88
S-FG-BI-M032-20-X	1.250	32	-20	450 / 137	280 / 85
S-FG-BI-M038-24-X	1.500	38	-24	350 / 106	225 / 68
S-FG-BI-M044-28-X	1.750	44	-28	300 / 91	208 / 63
S-FG-BI-M051-32-X	2.000	51	-32	250 / 76	190 / 57
S-FG-BI-M064-40-X	2.500	64	-40	225 / 68	180 / 54
S-FG-BI-M076-48-X	3.000	76	-48	200 / 60	175 / 53
S-FG-BI-M089-56-X	3.500	89	-56	190 / 57	170 / 51
S-FG-BI-M102-64-X	4.000	102	-64	175 / 53	140 / 42
S-FG-BI-M127-80-X	5.000	127	-80	120 / 36	100 / 30

For the "X" value in the part number:  
use "1" to specify Thin Wall; use "2" to specify Thick Wall

Thin Wall = 1/16" / 1.59mm • Thick Wall = 1/8" / 3.18mm

This Product is Available By-The-Foot

## Fiberglass Braided Heat Treated Sleeve: *Premium Grade*

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods

DeltaGlass™ Very High Temperature & Heat Resistant – Passes UL VW-1 Flame Test



This Braided fiberglass sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C.

Heat Treating removes organics and impurities from the sleeve, and makes the product dimensionally stable to the high-end of its continuous exposure temperature (providing minimal shrinkage). The sleeve is exceptionally smooth and has extremely few loose filament ends protruding from the braid – making it extremely clean to use in a variety of applications including aerospace wiring protection and bundling and clean room applications.

This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable.

The braiding is fine and dense, providing excellent protective coverage. Common applications for heat treated sleeve is for the protection of wiring, cables and hoses in consumer, industrial and commercial appliances and equipment such as ovens, kilns, toasters and heaters. The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.

**1200°F / 648°C continuous rating, high insulation value & excellent personnel protection**

<b>Very High Temperature &amp; Heat Resistant Fiberglass Braided Heat Treated Sleeve – Premium Grade UL 1441 (VW-1) / Dielectric C-3 / UL Thermal Class S &amp; C</b>			
<b>Part Number</b>	<b>ID Size in / mm / dash #</b>	<b>Feet / Metres per Spool</b>	<b>Wall Thickness</b>
S-FG-BHT-M006-04	0.250 / 6 / -4	500 / 152	0.035 /
S-FG-BHT-M010-06	0.375 / 10 / -6	500 / 152	0.035 /
S-FG-BHT-M013-08	0.500 / 13 / -8	400 / 121	0.035 /
S-FG-BHT-M016-10	0.625 / 16 / -10	500 / 152	0.035 /
S-FG-BHT-M019-12	0.750 / 19 / -12	400 / 121	0.035 /
S-FG-BHT-M025-16	1.000 / 25 / -16	250 / 76	0.042 /
S-FG-BHT-M038-24	1.500 / 38 / -24	200 / 60	0.051 /

Please call for additional discount pricing when ordering more than 5 spools.

**This Product is available By-The-Foot and by Spool Length**

## Braided Fiberglass Sleeve – Texturized - High Bulk

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods

MaxSleeve™ Temperature & Heat Resistant Fiberglass Braided High Bulk Texturized Sleeve:

Premium Grade



- DeltaGlass™ Braided High Bulk Texturized Premium Sleeve.
- Highest Insulation Value Sleeve Available.
- Available in Thin Wall (1/16") and Thick Wall (1/8").
- Texturization provides high bulk & high thermal insulation value

This braided sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C.

This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable. The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.

Available Plain and Vermiculite Coated.

1200°F / 648°C continuous rating, high insulation value & excellent personnel protection

DeltaGlass™ High Bulk Texturized Braided Fiberglass Sleeve Premium Grade					
Part Number	Size inch / mm / -dash			Thin Wall	Thick Wall
				Feet / Metres per spool	Feet / Metres per spool
S-FG-TEX-M010-06-X	.375	10	-6	N/A	250 / 76
S-FG-TEX-M013-08-X	.500	13	-8	500 / 152	250 / 76
S-FG-TEX-M016-10-X	.625	16	-10	N/A	100 / 30
S-FG-TEX-M019-12-X	.750	19	-12	250 / 76	100 / 30
S-FG-TEX-M025-16-X	1.000	25	-16	250 / 76	100 / 30
S-FG-TEX-M032-20-X	1.250	32	-20	N/A	100 / 30
S-FG-TEX-M038-24-X	1.500	38	-24	250 / 76	100 / 30
S-FG-TEX-M051-32-X	2.000	51	-32	N/A	100 / 30

For the "X" value in the part number:  
use "1" to specify Thin Wall; use "2" to specify Thick Wall

Thin Wall = 1/16" / 1.59mm • Thick Wall = 1/8" / 3.18mm

## Fiberglass Braided Anti-Fray Expandable Heat Treated &

### Acrylic Saturated Sleeve - Premium Grade

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods

*DeltaGlass™ Very High Temperature & Heat Resistant Expandable Sleeve*



- This Braided fiberglass sleeve is fabricated from high quality type E fiberglass that will not burn and will withstand continuous exposure to temperatures of 1200°F / 648°C. The sleeve is heat treated before being saturated.
- This material resists most acids and alkalis and is unaffected by most bleaches and solvents. It is highly flexible and conformable.
- The base fiber is manufactured to the specifications of ASTM D-578, ASTM committee D13, and subcommittee D13.18.
- The braid angle of this sleeve allows for the sleeve to easily adjust to a range of sizes around its nominal ID – so it can accommodate passing over splices and in-line connectors.
- The saturant provides reduced fray when cutting this sleeve, as can be seen by the clean ends of the sleeve in this photo. As well, the sleeve becomes stiffer (notice the sleeve remains tubular and does not collapse under its own weight as it would unsaturated). The sleeve remains highly conformable and flexible even with the saturant; it flexes, bends with the same radius as unsaturated sleeve and curves easily and will not prevent or restrict wiring and cable routing.
- Available with colored saturant. The saturant will smoke off at temperatures above 425F.



## Fiberglass Braided Anti-Fray Expandable Heat Treated & Saturated Sleeve - Premium Grade (Continued)

1200°F / 648°C continuous rating, high insulation value & excellent personnel protection

<b>Very High Temperature &amp; Heat Resistant Braided Heat Treated Fiberglass with Acrylic Saturated Sleeve Premium Grade</b>			
<b>Part Number</b>		<b>Size Range</b>	<b>Feet / Metres per Spool</b>
S-FG-B-HT-SAT-M006/010-04/06	1/4" / 6mm	1/4" to 3/8"	600 / 182
S-FG-B-HT-SAT-M010/013-06/08	3/8" / 10mm	3/8" to 1/2"	400 / 121
S-FG-B-HT-SAT-M013/019-08/12	1/2" / 13mm	1/2" to 3/4"	300 / 91
S-FG-B-HT-SAT-M016/025-10/16	5/8" / 16mm	5/8" to 1"	250 / 76
S-FG-B-HT-SAT-M019/032-12/20	3/4" / 19mm	3/4" to 1 1/4"	250 / 76
S-FG-B-HT-SAT-M025/044-16/28	1" / 25mm	1" to 1 3/4"	200 / 60
S-FG-B-HT-SAT-M038/057-24/36	1 1/2" / 38mm	1 1/2" to 2 1/4"	150 / 45
S-FG-B-HT-SAT-M064/102-40/64	2 1/2" / 64mm	2 1/2" to 4"	75 / 22

The addition of an acrylic saturant adds rigidity and abrasive resistance to the sleeve, reducing the likelihood of end fray and results in a sleeve that is easy to apply over long lengths of hose or cable.

The base material temperature rating is 1200°F / 648°C, however the saturant will smoke off at temperatures above 425F / 218°C.

The large braid angle allows for significant expansion of the sleeve resulting in ease of installation, for example, in situations where a hose may have an in-line coupling or adapter to a larger size hose; or similarly where cables may have a splice.

Please contact us for colored versions.

**This Product is NOT Available By-The-Foot – Full Spool Only**