



## Fiberglass Braided Sleeve - AWG Wire Gauge Sized - E Glass & S Glass

### Precision Small Diameter

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

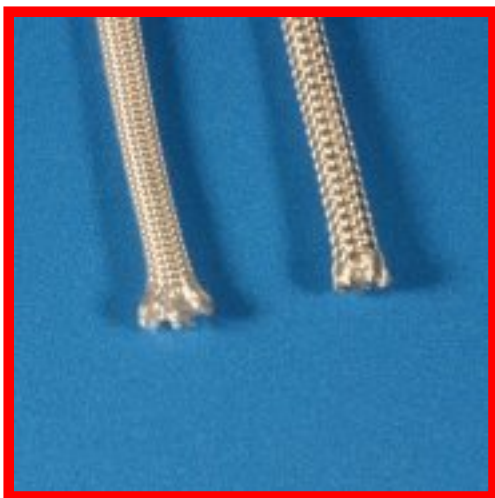
*DeltaGlass™ Very High Temperature & Heat Resistant Insulation with 1375 volts space factor rating and NEMA TF-2 Section 6.3 flame resistance*

**S-Glass Precision Small Diameter / NEMA Wall Thickness:**

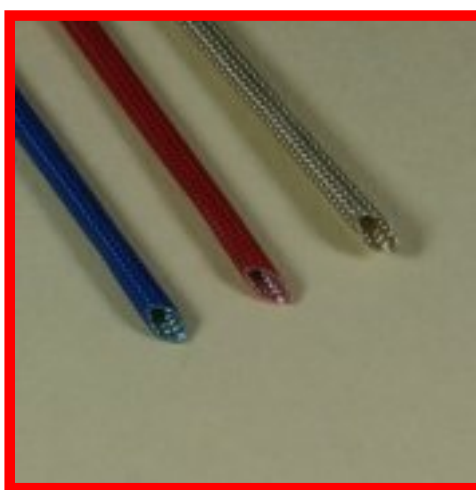
**Plain or Heat Treated, Heat Treated with Binders**

**E-Glass Precision Small Diameter / Heavy Wall:**

**Heat Treated or Heat Treated with Binders**



Left: Standard Wall Thickness  
Right: 1/32" Heavy Wall Thickness



Standard Wall Thickness  
Heat Treated with Binders

**Plain & heat treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent.**

**Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent.**

This is a high-strength, high-temperature fiberglass sleeve produced from either S-Glass or E-Glass. S-Glass, which in addition to enhanced dielectric and mechanical properties, provides thermal protection beyond the limits of conventional E-glass fibers. S-Glass is free of boron and will not decompose to form gaseous products with nuclear radiation exposure. Also available heat treated; with Acrylic resin or Oleoresinous binder. Both heat treated and with binders reduces fray and makes cutting easier.

The braiding is tight and dense, providing excellent coverage over small wires, cables, hoses, tubes and pipes.

#### Properties:

	S Glass	E Glass
Specific Gravity g/cm <sup>3</sup> :	2.48 – 2.49	2.55 - 2.58
Elongation at break, %:	5.3 – 5.7	4.5 - 4.9
Tensile strength, psi @22°C:	650,000 – 700,000	500,000 - 550,000
Water absorbency @22°C, 65% R.H.:	None	None
Space Factor Insulation, volts:	1375	1100 (Std Wall) 1500 (HD wall)

#### Common Properties:

Good resistance to most acids and alkalies  
Unaffected by bleaches and solvents  
Excellent resistance to sunlight and aging. Not attacked by Mildew.  
Conforms to NEMA TF-2. Fibers conform to MIL-R-60346. Type IV, Class 1.

**This product is not stock, it is made to order: Delivery is approximately 15 business days.**

**Very High Temperature & Heat Resistant Fiberglass Braided Sleeve  
S-Glass Precision Small Diameter / NEMA Wall Thickness: Plain or Heat Treated  
with 1375 volts space factor insulation and NEMA TF-2 section 6.3 flame rating**

Part Number	Nominal Size AWG / inch / mm / -dash				Price per Spool		Feet per Spool
					Plain	Heat Treated	
S-FG-S-AWG24-X	24	0.022	0.56	NA	\$ 192.38	\$ 233.46	500'
S-FG-S-AWG22-X	22	0.027	0.69	NA	\$ 207.41	\$ 243.48	500'
S-FG-S-AWG20-X	20	0.034	0.86	NA	\$ 212.42	\$ 253.50	500'
S-FG-S-AWG19-X	19	0.038	0.96	NA	\$ 222.44	\$ 258.51	500'
S-FG-S-AWG18-X	18	0.042	1.07	NA	\$ 237.47	\$ 278.55	500'
S-FG-S-AWG17-X	17	0.047	1.19	NA	\$ 252.50	\$ 298.59	500'
S-FG-S-AWG16-X	16	0.053	1.35	NA	\$ 287.57	\$ 338.67	500'
S-FG-S-AWG15-X	15	0.059	1.50	NA	\$ 322.64	\$ 383.76	500'
S-FG-S-AWG14-X	14	0.066	1.68	-01	\$ 357.71	\$ 418.83	500'
S-FG-S-AWG13-X	13	0.076	1.93	NA	\$ 199.79	\$ 233.92	250'
S-FG-S-AWG12-X	12	0.085	2.16	NA	\$ 214.85	\$ 255.01	250'
S-FG-S-AWG11-X	11	0.095	2.41	NA	\$ 232.92	\$ 275.59	250'
S-FG-S-AWG10-X	10	0.106	2.69	NA	\$ 244.97	\$ 290.55	250'
S-FG-S-AWG9-X	9	0.118	3.10	NA	\$ 269.07	\$ 318.26	250'
S-FG-S-AWG8-X	8	0.133	3.38	-02	\$ 292.16	\$ 348.38	250'
S-FG-S-AWG7-X	7	0.148	3.76	NA	\$ 312.24	\$ 374.48	250'
S-FG-S-AWG6-X	6	0.166	4.22	NA	\$ 203.34	\$ 238.57	150'
S-FG-S-AWG5-X	5	0.186	4.72	-03	\$ 221.46	\$ 264.74	150'
S-FG-S-AWG4-X	4	0.208	5.28	NA	\$ 243.61	\$ 289.91	150'
S-FG-S-AWG3-X	3	0.234	5.94	NA	\$ 276.83	\$ 327.16	150'
S-FG-S-AWG2-X	2	0.263	6.68	-04	\$ 311.06	\$ 367.43	150'
S-FG-S-AWG1-X	1	0.294	7.47	NA	\$ 350.32	\$ 414.74	150'
S-FG-S-05-X	5/16	0.313	7.95	-05	\$ 380.52	\$ 444.94	150'
S-FG-S-AWG0-X	0	0.330	8.38	NA	\$ 407.70	\$ 478.17	150'
S-FG-S-06-X	3/8	0.375	9.52	-06	\$ 767.10	\$ 897.96	150'
S-FG-S-07-X	7/16	0.438	11.12	-07	\$ 618.21	\$ 737.34	100'
S-FG-S-08-X	1/2	0.500	12.70	-08	\$ 786.35	\$ 919.33	100'
S-FG-S-10-X	5/8	0.625	15.87	-10	\$ 942.74	\$ 1104.21	100'
S-FG-S-12-X	3/4	0.750	19.05	-12	\$ 1192.11	\$1239.54	100'
S-FG-S-14-X	7/8	0.875	22.22	-14	\$ 1298.63	\$1519.79	100'
S-FG-S-16-X	1	1.000	25.40	-16	\$ 1530.84	\$1791.54	100'

**For the "X" value in the part number: use "P" to specify Plain  
use "HT" to specify Heat Treated**

- See table at end of section for dimensional specifications for this product.
- Plain & Heat Treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent.
- This product is available in full coils except as listed below.

**By The Foot Pricing:**

S-FG-S-AWG16-HT is available at \$3.55 per foot.  
S-FG-S-AWG10-HT is available at 5.94 per foot

- **This product is not stock, it is made to order: Delivery is approximately 10 business days.**

**Very High Temperature & Heat Resistant Fiberglass Braided Sleeve**  
**S-Glass Precision Small Diameter / NEMA Wall Thickness**  
**with 1375 volts space factor insulation and NEMA TF-2 section 6.3 flame rating**  
**Heat Treated with Binders**

Part Number	Nominal Size				Price per Spool	Feet per Spool
	AWG	inch	mm	-dash		
S-FG-S-HTB-AWG24-X	24	0.022	0.56	NA	\$ 255.51	500'
S-FG-S-HTB-AWG22-X	22	0.027	0.69	NA	\$ 270.54	500'
S-FG-S-HTB-AWG20-X	20	0.034	0.86	NA	\$ 275.55	500'
S-FG-S-HTB-AWG19-X	19	0.038	0.96	NA	\$ 290.58	500'
S-FG-S-HTB-AWG18-X	18	0.042	1.07	NA	\$ 305.61	500'
S-FG-S-HTB-AWG17-X	17	0.047	1.19	NA	\$ 335.67	500'
S-FG-S-HTB-AWG16-X	16	0.053	1.35	NA	\$ 375.75	500'
S-FG-S-HTB-AWG15-X	15	0.059	1.50	NA	\$ 415.83	500'
S-FG-S-HTB-AWG14-X	14	0.066	1.68	-01	\$ 460.92	500'
S-FG-S-HTB-AWG13-X	13	0.076	1.93	NA	\$ 257.03	250'
S-FG-S-HTB-AWG12-X	12	0.085	2.16	NA	\$ 275.10	250'
S-FG-S-HTB-AWG11-X	11	0.095	2.41	NA	\$ 300.20	250'
S-FG-S-HTB-AWG10-X	10	0.106	2.69	NA	\$ 320.28	250'
S-FG-S-HTB-AWG9-X	9	0.118	3.10	NA	\$ 350.40	250'
S-FG-S-HTB-AWG8-X	8	0.133	3.38	-02	\$ 377.51	250'
S-FG-S-HTB-AWG7-X	7	0.148	3.76	NA	\$ 410.64	250'
S-FG-S-HTB-AWG6-X	6	0.166	4.22	NA	\$ 264.76	150'
S-FG-S-HTB-AWG5-X	5	0.186	4.72	-03	\$ 289.93	150'
S-FG-S-HTB-AWG4-X	4	0.208	5.28	NA	\$ 316.11	150'
S-FG-S-HTB-AWG3-X	3	0.234	5.94	NA	\$ 358.39	150'
S-FG-S-HTB-AWG2-X	2	0.263	6.68	-04	\$ 405.70	150'
S-FG-S-HTB-AWG1-X	1	0.294	7.47	NA	\$ 459.06	150'
S-FG-S-HTB-05-X	5/16	0.313	7.95	-05	\$ 493.29	150'
S-FG-S-HTB-AWG0-X	0	0.330	8.38	NA	\$ 526.51	150'
S-FG-S-HTB-06-X	3/8	0.375	9.52	-06	\$ 993.62	150'
S-FG-S-HTB-07-X	7/16	0.438	11.12	-07	\$ 815.21	100'
S-FG-S-HTB-08-X	1/2	0.500	12.70	-08	\$ 1017.55	100'
S-FG-S-HTB-10-X	5/8	0.625	15.87	-10	\$ 1221.71	100'
S-FG-S-HTB-12-X	3/4	0.750	19.05	-12	\$ 1546.92	100'
S-FG-S-HTB-14-X	7/8	0.875	22.22	-14	\$ 1683.68	100'
S-FG-S-HTB-16-X	1	1.000	25.40	-16	\$ 1984.17	100'

**For the "X" value in the part number:**

**use "HTA" to specify Heat Treated plus Acrylic Resin Binder**

- Resin treated available in white, red, green, brown, yellow, black, blue.

**use "HTO" to specify Heat Treated with Oleoresinous Varnish Binder**

- See table at the end of this section for dimensional tolerances for this product
- Plain & heat treated sleeve is rated 1200°F / 648°C continuous, 1742°F / 950°C intermittent.
- Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent
- Full spools only.
- **This product is not stock, it is made to order: Delivery is approximately 10 business days.**

**Very High Temperature & Heat Resistant Fiberglass Braided Sleeve**  
**E-Glass Precision Small Diameter / Standard Wall Thickness**  
**Heat Treated or Heat Treated with Binders**  
**with NEMA classification & Meets MIL-Y-1140 Class C Form 1**  
**Meets UL 1441 VW-1 Flame Resistance – Will Not Burn**

Part Number	Nominal Size AWG / inch / mm / -dash				Price per Spool		Feet per Coil
					Heat Treated	Heat Treated with Binders	
S-FG-E-AWG24-X	24	0.022	0.56	NA	\$ 117.00	\$ 146.25	500'
S-FG-E-AWG22-X	22	0.027	0.69	NA	\$ 120.25	\$ 149.50	500'
S-FG-E-AWG20-X	20	0.034	0.86	NA	\$ 123.63	\$ 152.75	500'
S-FG-E-AWG19-X	19	0.038	0.96	NA	\$ 126.75	\$ 156.00	500'
S-FG-E-AWG18-X	18	0.042	1.07	NA	\$ 130.00	\$ 159.25	500'
S-FG-E-AWG17-X	17	0.047	1.19	NA	\$ 133.25	\$ 162.50	500'
S-FG-E-AWG16-X	16	0.053	1.35	NA	\$ 136.50	\$ 169.00	500'
S-FG-E-AWG15-X	15	0.059	1.50	NA	\$ 143.12	\$ 175.50	500'
S-FG-E-AWG14-X	14	0.066	1.68	-01	\$ 146.25	\$ 182.00	500'
S-FG-E-AWG13-X	13	0.076	1.93	NA	\$ 73.13	\$ 92.62	250'
S-FG-E-AWG12-X	12	0.085	2.16	NA	\$ 74.75	\$ 97.50	250'
S-FG-E-AWG11-X	11	0.095	2.41	NA	\$ 81.25	\$ 107.25	250'
S-FG-E-AWG10-X	10	0.106	2.69	NA	\$ 82.87	\$ 108.87	250'
S-FG-E-AWG9-X	9	0.118	3.10	NA	\$ 89.37	\$ 113.75	250'
S-FG-E-AWG8-X	8	0.133	3.38	-02	\$ 95.87	\$ 126.75	250'
S-FG-E-AWG7-X	7	0.148	3.76	NA	\$ 104.00	\$ 134.87	250'
S-FG-E-AWG6-X	6	0.166	4.22	NA	\$ 68.25	\$ 86.77	150'
S-FG-E-AWG5-X	5	0.186	4.72	-03	\$ 74.10	\$ 94.57	150'
S-FG-E-AWG4-X	4	0.208	5.28	NA	\$ 79.95	\$ 105.30	150'
S-FG-E-AWG3-X	3	0.234	5.94	NA	\$ 92.62	\$ 115.05	150'
S-FG-E-AWG2-X	2	0.263	6.68	-04	\$ 102.37	\$ 133.57	150'
S-FG-E-AWG1-X	1	0.294	7.47	NA	\$ 117.97	\$ 151.12	150'
S-FG-E-05-X	5/16	0.313	7.95	-05	\$ 135.52	\$ 177.45	150'
S-FG-E-AWG0-X	0	0.330	8.38	NA	\$ 163.80	\$ 190.12	150'
S-FG-E-06-X	3/8	0.375	9.52	-06	\$ 193.05	\$ 250.57	150'
S-FG-E-07-X	7/16	0.438	11.12	-07	\$ 145.60	\$ 183.95	100'
S-FG-E-08-X	1/2	0.500	12.70	-08	\$ 155.35	\$ 195.65	100'
S-FG-E-10-X	5/8	0.625	15.87	-10	\$ 167.70	\$ 211.90	100'
S-FG-E-12-X	3/4	0.750	19.05	-12	\$ 206.70	\$ 259.35	100'
S-FG-E-14-X	7/8	0.875	22.22	-14	\$ 228.15	\$ 287.95	100'
S-FG-E-16-X	1	1.000	25.40	-16	\$ 277.55	\$ 349.05	100'

For the "X" value in the part number:

use "HT" to specify Heat Treated

use "HTA" to specify Heat Treated plus Acrylic Resin Binder,

use "HTAF" to specify Heat Treated plus Acrylic Resin Flexible Binder

- Resin treated available in white, red, green, brown, yellow, black, blue.

use "HTO" to specify Heat Treated with Oleoresinous Varnish Binder

Plain & Heat Treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent

Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent

See Size Table at the end of this catalog section for dimensional specifications

This Product must be purchased in full coils except as indicated below:

S-FG-E-AWG11-X is available by the foot; \$4.29 per foot

This product is not stock, it is made to order: Delivery is approximately 15 business days.

**Very High Temperature & Heat Resistant Fiberglass Braided Sleeve**  
**E-Glass Precision Small Diameter / Heavy Wall (1/32" - .031" )**  
**Heat Treated or Heat Treated with Binders**  
**with NEMA classification & Meets MIL-Y-1140 Class C Form 1**  
**Meets UL 1441 VW-1 Flame Resistance – Will Not Burn**

Part Number	Nominal Size AWG / inch / mm / -dash				Price per Spool		Feet per Coil
					Heat Treated	Heat Treated with Binders	
S-FG-E-HD-AWG24-X	24	0.022	0.56	NA	\$ 180.00	\$ 225.00	500'
S-FG-E-HD-AWG22-X	22	0.027	0.69	NA	\$ 185.00	\$ 230.00	500'
S-FG-E-HD-AWG20-X	20	0.034	0.86	NA	\$ 195.00	\$ 235.00	500'
S-FG-E-HD-AWG19-X	19	0.038	0.96	NA	\$ 195.00	\$ 240.00	500'
S-FG-E-HD-AWG18-X	18	0.042	1.07	NA	\$ 200.00	\$ 245.00	500'
S-FG-E-HD-AWG17-X	17	0.047	1.19	NA	\$ 205.00	\$ 250.00	500'
S-FG-E-HD-AWG16-X	16	0.053	1.35	NA	\$ 210.00	\$ 260.00	500'
S-FG-E-HD-AWG15-X	15	0.059	1.50	NA	\$ 220.00	\$ 270.00	500'
S-FG-E-HD-AWG14-X	14	0.066	1.68	-01	\$ 225.00	\$ 280.00	500'
S-FG-E-HD-AWG13-X	13	0.076	1.93	NA	\$ 112.50	\$ 142.50	250'
S-FG-E-HD-AWG12-X	12	0.085	2.16	NA	\$ 115.00	\$ 150.00	250'
S-FG-E-HD-AWG11-X	11	0.095	2.41	NA	\$ 125.00	\$ 165.00	250'
S-FG-E-HD-AWG10-X	10	0.106	2.69	NA	\$ 127.50	\$ 167.50	250'
S-FG-E-HD-AWG9-X	9	0.118	3.10	NA	\$ 137.50	\$ 175.00	250'
S-FG-E-HD-AWG8-X	8	0.133	3.38	-02	\$ 147.50	\$ 195.00	250'
S-FG-E-HD-AWG7-X	7	0.148	3.76	NA	\$ 160.00	\$ 207.50	250'
S-FG-E-HD-AWG6-X	6	0.166	4.22	NA	\$ 105.00	\$ 133.50	150'
S-FG-E-HD-AWG5-X	5	0.186	4.72	-03	\$ 114.00	\$ 145.50	150'
S-FG-E-HD-AWG4-X	4	0.208	5.28	NA	\$ 123.00	\$ 162.00	150'
S-FG-E-HD-AWG3-X	3	0.234	5.94	NA	\$ 142.50	\$ 177.00	150'
S-FG-E-HD-AWG2-X	2	0.263	6.68	-04	\$ 157.50	\$ 205.50	150'
S-FG-E-HD-AWG1-X	1	0.294	7.47	NA	\$ 181.50	\$ 232.50	150'
S-FG-E-HD-05-X	5/16	0.313	7.95	-05	\$ 208.50	\$ 273.00	150'
S-FG-E-HD-AWG0-X	0	0.330	8.38	NA	\$ 252.00	\$ 292.50	150'
S-FG-E-HD-06-X	3/8	0.375	9.52	-06	\$ 297.00	\$ 385.50	150'
S-FG-E-HD-07-X	7/16	0.438	11.12	-07	\$ 224.00	\$ 283.00	100'
S-FG-E-HD-08-X	1/2	0.500	12.70	-08	\$ 239.00	\$ 301.00	100'
S-FG-E-HD-10-X	5/8	0.625	15.87	-10	\$ 258.00	\$ 326.00	100'
S-FG-E-HD-12-X	3/4	0.750	19.05	-12	\$ 318.00	\$ 399.00	100'
S-FG-E-HD-14-X	7/8	0.875	22.22	-14	\$ 351.00	\$ 443.00	100'
S-FG-E-HD-16-X	1	1.000	25.40	-16	\$ 427.00	\$ 537.00	100'

For the "X" value in the part number:

use "HT" to specify Heat Treated

use "HTA" to specify Heat Treated plus Acrylic Resin Binder,

use "HTAF" to specify Heat Treated plus Acrylic Resin Flexible Binder

- Resin treated available in white, red, green, brown, yellow, black, blue.

use "HTO" to specify Heat Treated with Oleoresinous Varnish Binder

Plain & heat treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent.

Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent

See Size Table at the end of this catalog section for a dimensional specifications

This Product must be purchased in full coils.

This product is not stock, it is made to order: Delivery is approximately 15 business days.

**Fiberglass Braided Sleeve - Special Thin Wall .006" & .008".**  
**Plain and with Binders - Precision Premium Grade**  
**1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods**  
**DeltaGlass™ Very High Temperature & Heat Resistant**

<b>Very High Temperature &amp; Heat Resistant Fiberglass Braided Sleeve</b> <b>Special Thin Wall Thickness:</b> <b>Plain available all sizes; or with Resin Binder up to 1/2" / 12.7mm ID</b>						
Part Number	ID Nominal Size inch / mm / -dash			Price per Spool		Feet per Spool
				.006 wall Plain / Resin	.008 wall Plain / Resin	
S-FG-E-TW-M0016-01-X-Y	1/16 / 0.063	1.68	-01	\$ 102.20 / \$ 137.90	\$ 120.30 / \$ 161.90	1200'
S-FG-E-TW-M003-02-X-Y	1/8 / 0.125	3.17	-02	\$ 176.60 / \$ 212.50	\$ 211.00 / \$ 252.40	1200'
S-FG-E-TW-M005-03-X-Y	3/16 / 0.188	4.76	-03	\$ 196.60 / \$ 228.30	\$ 264.30 / \$ 315.50	1200'
S-FG-E-TW-M006-04-X-Y	1/4 / 0.250	6.35	-04	\$ 236.60 / \$ 274.10	\$ 292.10 / \$ 330.60	1200'
S-FG-E-TW-M008-05-X-Y	5/16 / 0.313	7.93	-05	\$ 144.95 / \$ 163.15	\$ 184.75 / \$ 219.15	600'
S-FG-E-TW-M010-06-X-Y	3/8 / 0.375	9.52	-06	\$ 177.25 / \$ 197.55	\$ 223.30 / \$ 277.20	600'
S-FG-E-TW-M011-07-X-Y	7/16 / 0.438	11.11	-07	\$ 191.30 / N/A	\$ 254.00 / N/A	600'
S-FG-E-TW-M013-08-X-Y	1/2 / 0.500	12.7	-08	\$ 210.45 / \$ 234.05	\$ 278.90 / \$ 320.75	600'
Sizes Below Not Available in .006" wall or with Resin Binder						
S-FG-E-TW-M016-10-8	5/8 / 0.625	15.87	-10	N/A	\$ 191.12 / N/A	300'
S-FG-E-TW-M019-12-8	3/4 / 0.750	19.05	-12	N/A	\$ 208.15 / N/A	300'
S-FG-E-TW-M022-14-8	7/8 / 0.875	22.22	-14	N/A	\$ 230.83 / N/A	300'
S-FG-E-TW-M025-16-8	1 / 1.000	25.4	-16	N/A	\$ 277.25 / N/A	300'
S-FG-E-TW-M032-20-8	1 1/4 / 1.250	31.75	-20	N/A	\$ 297.37 / N/A	300'
S-FG-E TW-M038-24-8	1 1/2 / 1.500	38.1	-24	N/A	\$ 326.02 / N/A	300'

**For the "X" value in the part number:** use "8" to specify .008" wall  
 use "6" to specify .006" wall

**For the "Y" value in the part number:** use "P" to specify Plain  
 use "B" to specify with Binder

- Plain sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent.
- Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent.
- This product is available in full coils only.
- Resin treated available in white, red, green, brown, yellow, black, blue.
- This is not a stock item: approximately 10 business days to manufacture to order.