

Ceramic Textiles and Composites

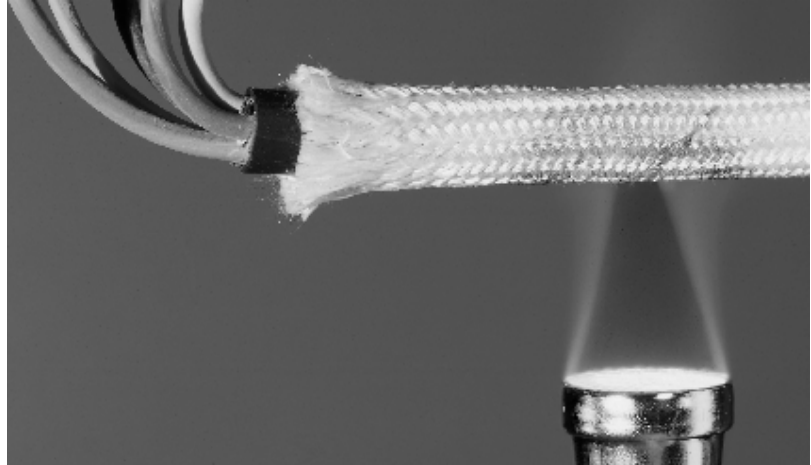
3M™ Nextel™ 440 Braided Sleeving

Nextel™ 440 Braided Sleeving is made from continuous Nextel 440 Alumina-Boria-Silica Fibers.

Nextel 440 sleeveings retain strength and flexibility at continuous temperatures of up to 2500° (1371°C) and still offers strength and flexibility up to 3000°F (1649°C) for short durations.

Typical Applications:

- Electrical Insulation
- Hose Protection
- Fire Zone Cable Protection
- Thermocouple Insulation
- Heater Wire Insulation
- Cable and Insulation Ties



Typical Properties of Style BS-40 Braided Sleeving

Sleeving Inside Diameter		Wall Thickness Sized		Length per Unit Weight		Yield As Packaged Roll Form		Picks per Unit Length		Length Coverage Factor*
Inch	mm	Inch	mm	Yards/lb	m/kg	Lbs/100 ft	g/m	Picks/in	Picks/cm	
1/16**	1,6	0.026	0,66	77	155	0.44	6,5	12	5	0.97
1/8	3,2	0.038	0,97	33	66	0.88	13	12	5	0.87
1/4	6,4	0.038	0,97	22	44	1.3	19	12	5	0.88
1/2	12,7	0.042	1,07	11	22	2.2	33	10	4	0.73
3/4**	19,1	0.042	1,07	7.8	16	3.3	49	10	4	0.78
1**	25,4	0.036	0,91	6.7	14	3.9	58	12	5	0.78
1 1/2**	38,1	0.034	0,86	4.8	9,7	5.1	76	12	5	0.74
2**	50,8	0.036	0,91	3.2	6,5	6.9	103	10.5	4	0.67
2 1/2**	63,5	0.038	0,97	2.7	5,4	8.3	124	7.5	3	0.68

Input yarn is Nextel 440 1000 Denier Yarn. Yarn construction: 1/2, 2.7z.

*(Package Length x Factor = Approximate Length Covered at Specific ID)

Approximate Length Covered at Specific Inside Diameter per 100 foot of Braided Sleeving.

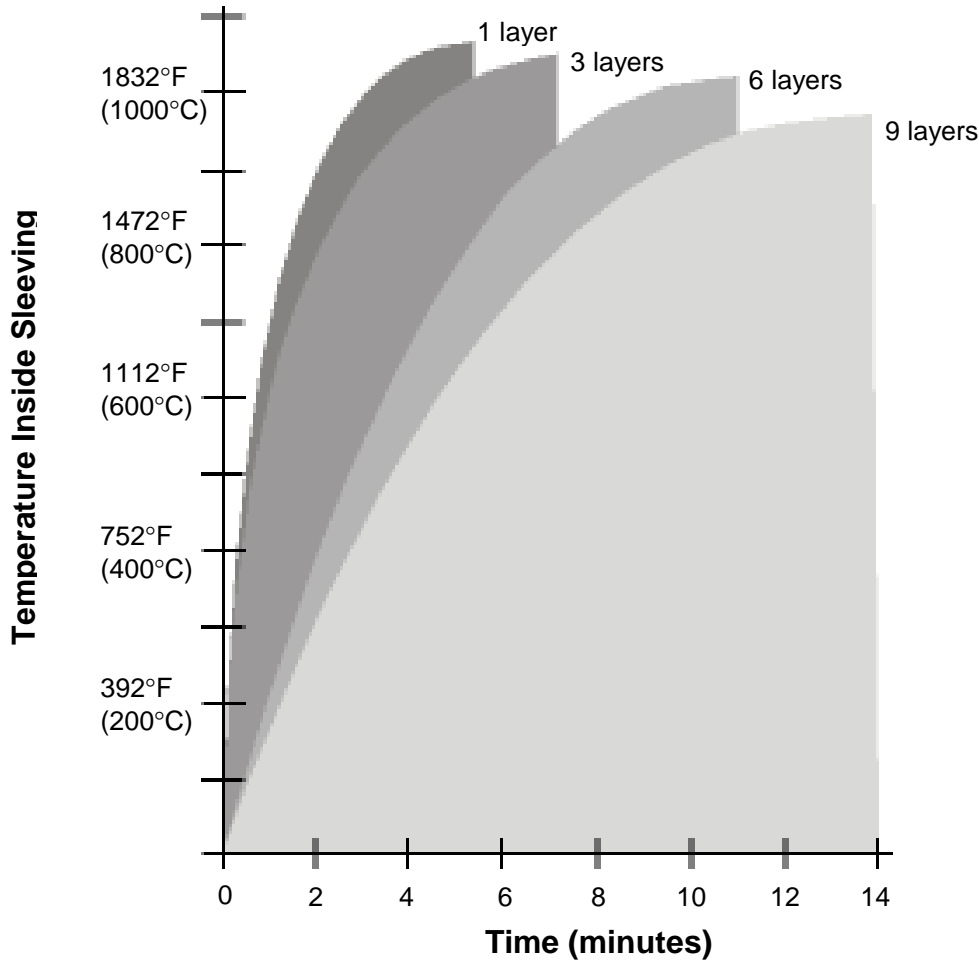
**Available only by special order.

Important Processing Information

Nextel™ 440 Ceramic Fibers are coated during manufacture with sizings or finishes which serve as aids in textile processing. These sizings or finishes consist of organic polymers which may ignite and/or decompose to hazardous byproducts or process contaminants when first heated.

Heat cleaning is available to meet your safety and process requirements. See our Nextel 440 Heat Cleaning and Heat Treating Instructions and our Health Safety Bulletin for more information.

The chart below illustrates the time/temperature function for increasing layers of 3M™ Nextel™ 440 Sleeving 0.038 inch (0,965 mm) thick after insertion in a 2000°F (1093°C) furnace.



IMPORTANT NOTICE TO PURCHASER

All statements, technical information, and recommendations contained in this brochure are based on tests conducted with 3M approved equipment, and are believed to be reliable. However, the accuracy or completeness of the tests is not guaranteed. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE: The seller's and manufacturer's only obligation will be to replace the quantity of the product proved to be defective. Neither the seller nor 3M will be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, the user must determine the suitability of the product for his or her intended use.



Ceramic Textiles and Composites
 3M Center, Building 207-1W-11
 St. Paul, MN 55144-1000
 Toll Free within the USA: (877) 992-7749
 FAX: (651) 736-6580
 www.mmm.com/ceramics



Printed on 50% recycled waste paper, including 10% post-consumer waste paper.

Printed in U.S.A.

© 3M 1996 98-0400-2983-1