



- Ideal For Strong Lightweight Tubular Structures
- Variety Of Diameters, Wall Thicknesses, And Braid Patterns
- Fast Turnaround On Custom Requirements



Cut Cleanly  
Scissors

<b>Material</b>	<b>Polyacrylonitrile (PAN)</b>
<b>Grade</b>	<b>CAL, CAN, CAH</b>
<b>Wall Thickness</b>	<b>.013" - .030"</b>
<b>Drawing Number</b>	<b>TF001CAL-WD</b>

	Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
				Min.	Max.	Bulk Spool	Shop Spool		
<b>CARBON LIGHT</b>	1/4"	CAL0.25BK	0.013"	1/8"	5/16"	500'	100'	Black	0.38
	1/2"	CAL0.50BK	0.013"	1/4"	5/8"	250'	50'	Black	0.75
	3/4"	CAL0.75BK	0.013"	5/16"	7/8"	250'	50'	Black	1.21
	1"	CAL1.00BK	0.013"	3/8"	1 1/16"	200'	50'	Black	1.51
	1 1/4"	CAL1.25BK	0.013"	1/2"	1 1/2"	125'	25'	Black	1.81
	1 1/2"	CAL1.50BK	0.013"	5/8"	1 3/4"	100'	25'	Black	2.26
	2"	CAL2.00BK	0.013"	3/4"	2 3/16"	100'	25'	Black	2.72
<b>CARBON MEDIUM</b>	1/2"	CAN0.50BK	0.020"	1/4"	5/8"	250'	50'	Black	1.21
	3/4"	CAN0.75BK	0.020"	5/16"	7/8"	250'	50'	Black	1.81
	1"	CAN1.00BK	0.020"	7/16"	1 1/16"	200'	50'	Black	2.42
	1 1/4"	CAN1.25BK	0.020"	9/16"	1 1/2"	125'	25'	Black	3.02
	1 1/2"	CAN1.50BK	0.020"	3/4"	1 3/4"	100'	25'	Black	3.62
	2"	CAN2.00BK	0.020"	7/8"	2 3/16"	100'	25'	Black	4.52
	2 1/2"	CAN2.50BK	0.020"	1 1/6"	3"	100'	25'	Black	5.43
<b>CARBON HEAVY</b>	3/4"	CAH0.75BK	0.030"	3/8"	7/8"	250'	50'	Black	2.72
	1"	CAH1.00BK	0.030"	1/2"	1 1/16"	200'	50'	Black	3.62
	1 1/4"	CAH1.25BK	0.030"	11/16"	1 1/2"	125'	25'	Black	4.83
	1 1/2"	CAH1.50BK	0.030"	13/16"	1 3/4"	100'	25'	Black	5.43
	2"	CAH2.00BK	0.030"	1"	2 3/16"	100'	25'	Black	7.25
	2 1/2"	CAH2.50BK	0.030"	1 1/4"	3"	100'	25'	Black	9.09
	3"	CAH3.00BK	0.030"	1 1/2"	3 1/2"	50'	25'	Black	10.87

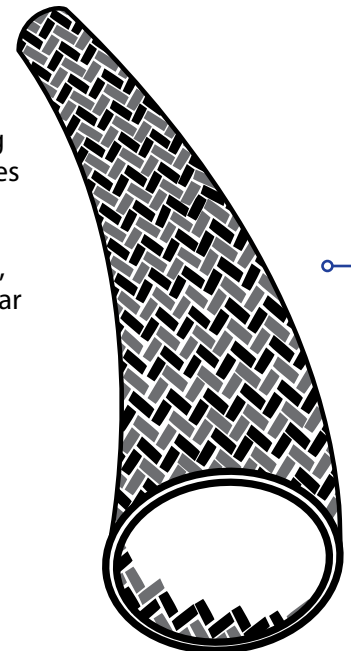
### Carbon Fiber Sleeve For High Strength Tubular Structures

Fabricators know that resin coated carbon fiber structures are stronger and lighter than virtually any other construction types. Carbon Fiber (CA) construction techniques are appearing in everything from state-of-the-art military and aerospace airframes to hockey sticks, fishing rods and model cars.

Our Carbon Fiber braided sleeving provides a strong, biaxial carbon fiber matrix for stiff, lightweight tubular structures up to 3" in diameter without seams or overlap. The tightly braided thick flexible sleeving will form itself to accommodate elliptical or asymmetrical profiles and provide the full coverage required for radial stability and torsional strength or hand tools.

Carbon fiber constructions can be cut, drilled, sanded and tooled with commonly available power or hand tools. Can be painted or left with the braid structure exposed.

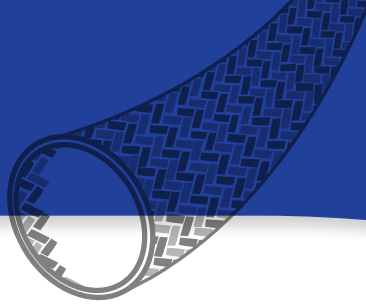
Colors Available:  
Black (BK)



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## ABRASION

**Abrasion Resistance**  
**Medium**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

**Room Temperature**  
**70°F**

**Humidity**  
**59%**

**Visible Moderate Wear**  
**20 Test Cycles**

**Material Completely Worn Through**  
**Material Destroyed**  
**40 Test Cycles**

**Pre-Test Weight**  
**3,450.9 mg**

**Post-Test Weight**  
**2,551.7 mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**899.2 mg**

## FLAMMABILITY

Rating \_\_\_\_\_ Non Flammable

## CHEMICAL RESISTANCE

1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Esters/Keytones \_\_\_\_\_ 1  
UV Light \_\_\_\_\_ 2

## PHYSICAL PROPERTIES

Monofilament Diameter \_\_\_\_\_ NA  
ASTM D-204

Recommended Cutting \_\_\_\_\_ Scissor

Colors \_\_\_\_\_ 1

Wall Thickness \_\_\_\_\_ .013-.030

Specific Gravity \_\_\_\_\_ 1.75-1.85  
ASTM D-792