

- UL Recognized
- Resin Coated, Heavy Weight  
Fiberglass Won't Burn, Melt  
Or Become Brittle
- Easy To Install-Cuts With  
Scissors
- Resists Gasoline And  
Engine Chemicals
- Cut And Abrasion Resistant



**Cut Cleanly**  
Scissors

**Material**  
Resin Coated Fiberglass

**Grade**  
FGN

**Wall Thickness**  
Refer to Chart

**Drawing Number**  
TF001INS-WD

**Put-Ups**

Nominal Size	Part #	Maximum Diameter	Wall Thickness	Bulk Spool	Shop Spool	Available Colors	Lbs/100'
1/4"	FGN0.25	3/8"	0.031"	200'	50'	2	2.00
3/8"	FGN0.38	5/8"	0.043"	200'	50'	2	3.30
1/2"	FGN0.50	3/4"	0.046"	200'	50'	2	4.80
5/8"	FGN0.63	7/8"	0.046"	200'	50'	2	5.30
3/4"	FGN0.75	1 1/8"	0.046"	200'	50'	2	6.40
7/8"	FGN0.88	1 1/4"	0.046"	200'	50'	2	8.70
1"	FGN1.00	1 5/8"	0.057"	100'	25'	2	10.50
1 1/2"	FGN1.50	2 5/8"	0.061"	100'	25'	2	16.00
2 1/2"	FGN2.50	4 1/8"	0.071"	100'	25'	2	19.70

**Resin Coated Fiberglass  
Protects To 1,200°F**

INSULTHERM (FG) is an extremely high temperature resistant sleeve commonly used as thermal protection for wires, cables and hoses that are subjected to continuous and extreme high temperature environments, such as engine manifolds and exhaust systems.

FG is braided from fiberglass yarns and coated with high temperature resins. FG is tough and durable, maintaining its tight structure under extreme vibration, abrasion, mechanical stress and temperature variations.

FG installs easily over a variety of applications to either deflect or retain heat in environments up to 1,200° F.

**"...will withstand extreme heat...  
provides the protection needed"**

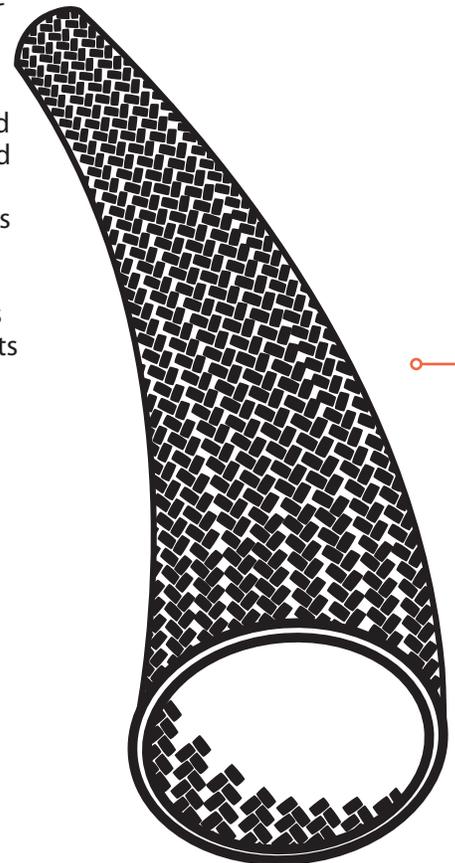
*Peter Mercier - Engineer Team Bucknum Racing  
www.bucknum.com*

Colors Available:



Black (BK) and Silver (SV).

**Colors Available:**  
2 = BK and SV





## **ABRASION** **FLAMMABILITY**

**Abrasion Resistance** Rating \_\_\_\_\_ VW-1  
**High**

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

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

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

**Room Temperature**  
**73°F**

**Humidity**  
**55%**

**Visible Minor Scuffing**  
**200 Test Cycles**

**Scuffing And Wear  
Continues**  
**300 Test Cycles**

**Scuffing And Wear  
Continues**  
**500 Test Cycles**

**Several Broken Strands**  
**1,300 Test Cycles**

**Material Destroyed**  
**1,650 Test Cycles**

**Pre-Test Weight**  
**19,411.6 mg**

**Post-Test Weight**  
**17,154.5 mg**

**Test End Loss Of Mass  
Point Of Destruction**  
**2,257.1 mg**

## **CHEMICAL RESISTANCE**

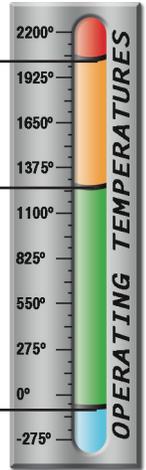
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Aromatic Solvents _____	1
Aliphatic Solvents _____	1
Chlorinated Solvents _____	1
Weak Bases _____	1
Salts _____	1
Strong Bases _____	1
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	2
Strong Oxidants _____	2
Esters/Ketones _____	1
UV Light _____	2
Petroleum _____	1
Fungus ASTM G-21 _____	1
Halogen Free _____	Yes
RoHS _____	Yes
SVHC _____	None

**Melt Point**  
*ASTM D-2117*  
**2,048°F (1,120°C)**

**Maximum Continuous**  
*Mil-I-23053*  
**1,202°F (650°C)**

**Minimum Continuous**  
**-94°F (-70°C)**



## **PHYSICAL PROPERTIES**

Monofilament Diameter _____	NA
<i>ASTM D-204</i>	
Flammability Rating _____	VW-1
Recommended Cutting _____	Scissor
Colors _____	2
Wall Thickness _____	.031-.061
Specific Gravity <i>ASTM D-792</i> _____	1.0-1.8
Moisture Absorption _____	.01
<i>% ASTM D-570</i>	
Hard Vacuum Data _____	
<i>ASTM E-595</i>	
TML _____	.02
CVCM _____	.01
WVR _____	.00
Outgassing _____	Low