

- 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.

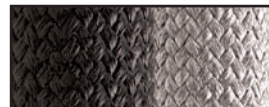
FG is braided from fiberglass yarns and coated with high temperature resins. FG is tough and durable, maintaining its tight structure under extreme vibration, abrasion, mechanical stress and temperature variations.

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"**

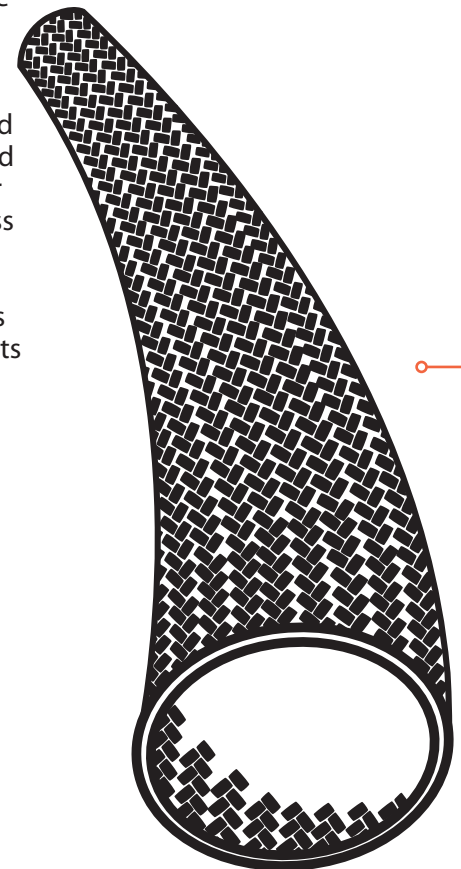
*Peter Mercier - Engineer Team Bucknum Racing
www.bucknum.com*

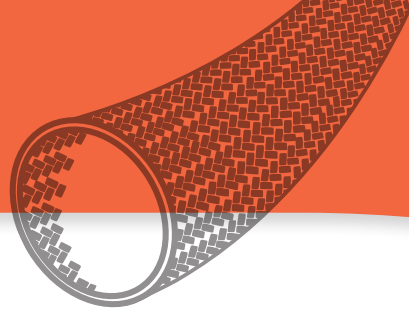
Colors Available:



Black (BK) and Silver (SV).

Colors Available:
2 = BK and SV





ABRASION **FLAMMABILITY**

Abrasion Resistance
High

Rating _____ VW-1

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

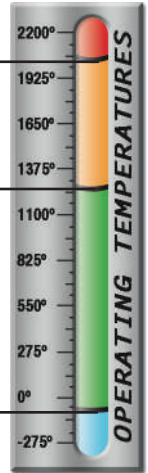
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

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