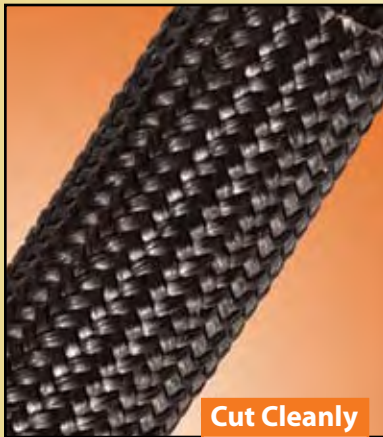


INSULTHERM™

- **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	Retail	Clam	Available Colors	Lbs/ 100'
1/4"	FGN0.25	3/8"	0.031"	200'	50'	50'	6'	2	2.00
3/8"	FGN0.38	5/8"	0.043"	200'	50'	35'	6'	2	3.30
1/2"	FGN0.50	3/4"	0.046"	200'	50'	25'	6'	2	4.80
5/8"	FGN0.63	7/8"	0.046"	200'	50'	20'	6'	2	5.30
3/4"	FGN0.75	1 1/8"	0.046"	200'	50'	15'	6'	2	6.40
7/8"	FGN0.88	1 1/4"	0.046"	200'	50'	12'	6'	2	8.70
1"	FGN1.00	1 5/8"	0.057"	100'	25'	12'	6'	2	10.50
1 1/2"	FGN1.50	2 5/8"	0.061"	100'	25'	10'	6'	2	16.00

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"

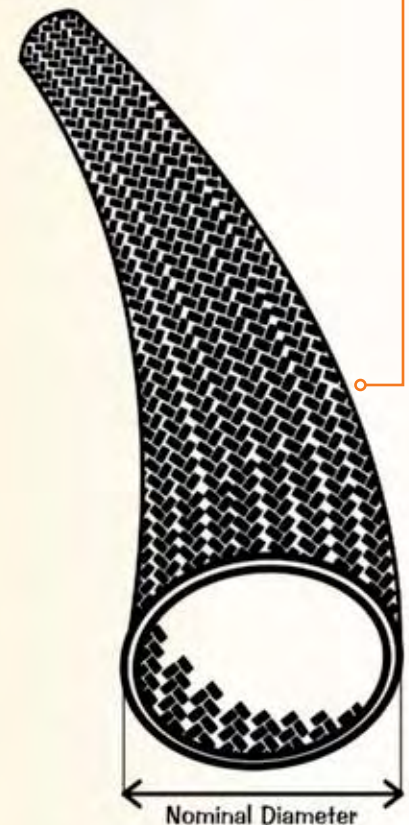
Peter Mercier - Engineer Team Bucknum Racing
www.bucknum.com

Colors Available:



Black (BK) and Silver (SV).

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



INSULTHERM™

Abrasion Resistance
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



Rating _____ VW-1



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/Keytones	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

Tensile Strength (Yarn) _____
ASTM D-2256 Lbs

Specific Gravity ASTM D-792 _____ 1.0-1.8

Moisture Absorption _____ .01
% ASTM D-570

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML _____ .02

CVCM _____ .01

WVR _____ .00

Smoke D-Max _____
ASTM E-662

Outgassing _____ Low

Oxygen Index _____
ASTM D-2863