

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**

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



**Cut Cleanly
 Scissors**

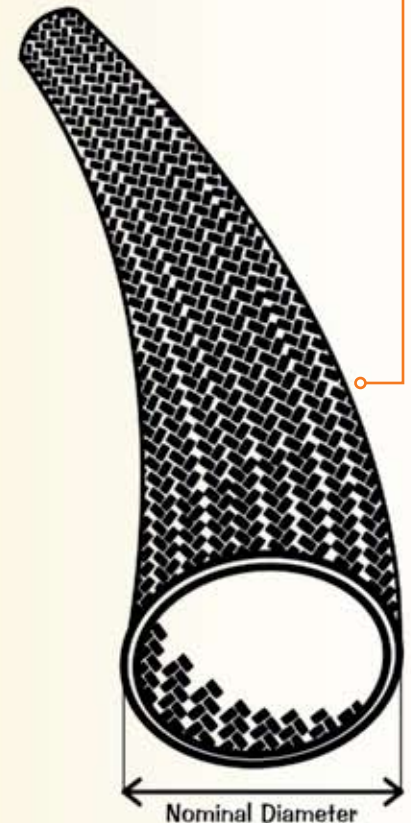
Resin Coated Fiberglass Protects To 1,200°F

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.

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



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

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

Colors Available:



Black (BK) and Silver (SV).

Material
Resin Coated Fiberglass

Grade
FGN

Wall Thickness
Refer to Chart

Drawing Number
TF001INS-WD



EXTREME TEMPERATURES

Technical Data Sheet



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

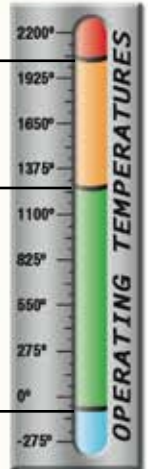
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

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
<i>ASTM D-204</i>	
Flammability Rating _____	VW-1
Recommended Cutting _____	Scissor
Colors _____	2
Wall Thickness _____	.031-.061
Tensile Strength (Yarn) _____	
<i>ASTM D-2256 Lbs</i>	
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 at 10-5 torr</i>	
TML _____	.02
CVCM _____	.01
WVR _____	.00
Smoke D-Max _____	
<i>ASTM E-662</i>	
Outgassing _____	Low
Oxygen Index _____	
<i>ASTM D-2863</i>	

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