

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

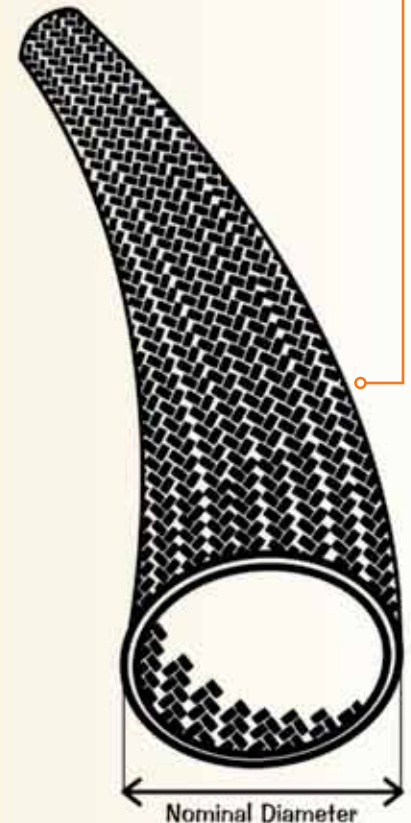
Resin Coated Fiberglass Protects To 1,200°F

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 <i>O-S-1926</i> _____	1
Hydraulic Fluid <i>MIL-H-5606</i> _____	1
Lube Oil <i>MIL-L-7808</i> _____	1
De-Icing Fluid <i>MIL-A-8243</i> _____	1
Strong Acids _____	2
Strong Oxidants _____	2
Esters/Keytones _____	1
UV Light _____	2
Petroleum _____	1
Fungus <i>ASTM G-21</i> _____	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

www.techflex.com