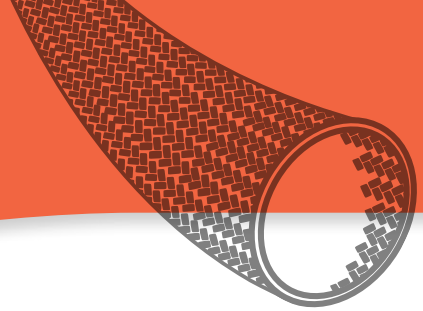
INSULTHERM



EXTREME TEMPERATURE
Technical Data Sheet

- 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	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

Cut Cleanly
Scissors

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.

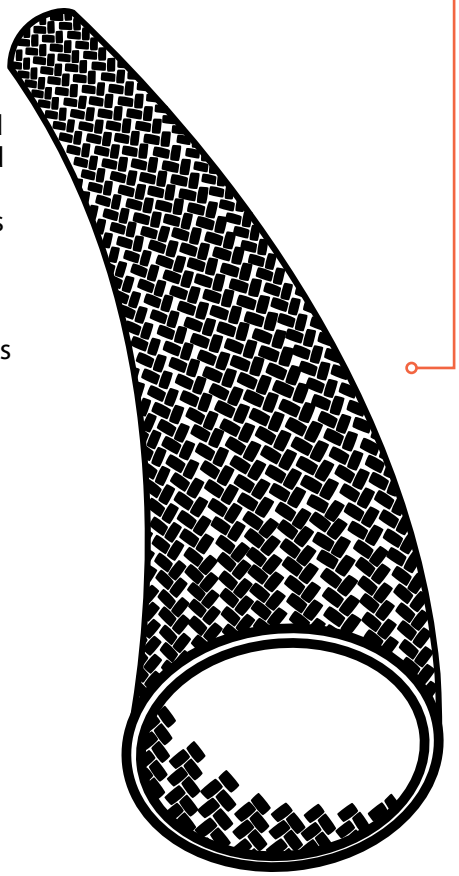
FG is braided from fiberglass yarns and coated with high temperature resins. FG is tough and durable, maintaining its tight structure under extreme vibration, abrasion, mechanical stress and temperature variations.

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:
2 = BK and SV



Material
Resin Coated Fiberglass

Grade
FGN

Wall Thickness
Refer to Chart

Drawing Number
TF001INS-WD

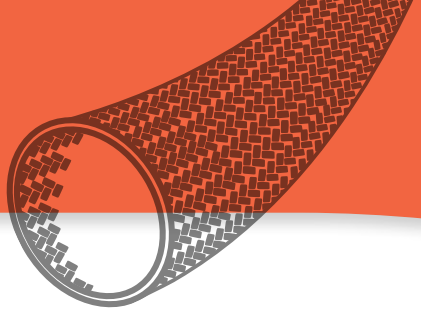
Colors Available:

Black (BK) and Silver (SV).

TECHFLEX
Braided Sleeving Products
www.techflex.com
800.323.5140 • 973.300.9242 • fax: 973.300.9409
104 Demarest Road • Sparta, NJ 07871

HALOGEN FREE

EXTREME
TEMPERATURE
Technical Data Sheet



InsulTherm®

ABRASION

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

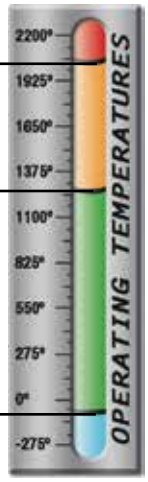
FLAMMABILITY

Rating _____ VW-1

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)



CHEMICAL RESISTANCE

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

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

www.techflex.com