

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

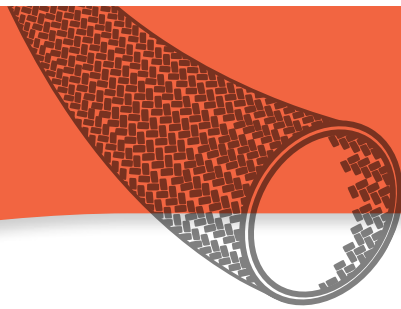
[Techflex](#)  
[FGN0.25BK](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



**EXTREME  
 TEMPERATURE**  
 Technical Data Sheet

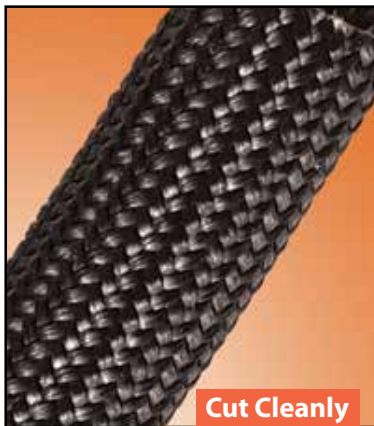


- UL Recognized
- Resin Coated, Heavy Weight Fiberglass Won't Burn, Melt Or Become Brittle
- Easy To Install-Cuts With Scissors
- Resists Gasoline And Engine Chemicals
- Cut And Abrasion Resistant

**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**



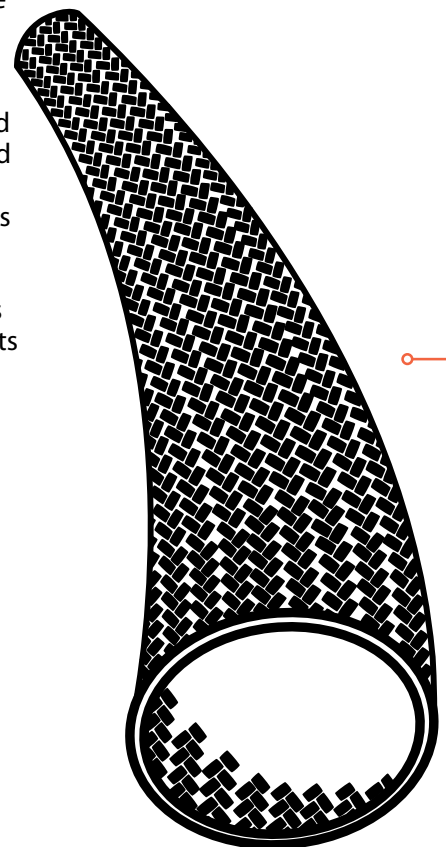
Cut Cleanly  
 Scissors

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.

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



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

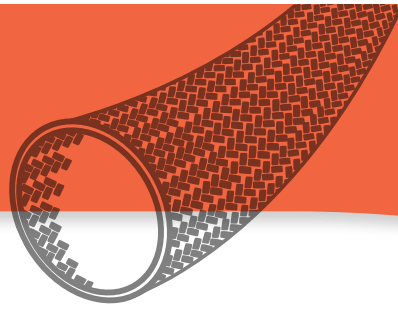
*Peter Mercier - Engineer Team Bucknum Racing  
 www.bucknum.com*

Colors Available:



Black (BK) and Silver (SV).

<b>Material</b>	Resin Coated Fiberglass
<b>Grade</b>	FGN
<b>Wall Thickness</b>	Refer to Chart
<b>Drawing Number</b>	TF001INS-WD



## ABRASION FLAMMABILITY

**Abrasion Resistance** Rating \_\_\_\_\_ VW-1  
**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

## CHEMICAL RESISTANCE

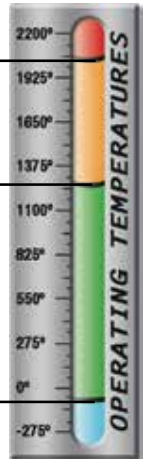
1=No Effect      4=More Affected  
 2=Little Effect    5=Severely Affected  
 3=Affected

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