

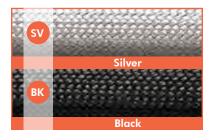
- Resin Saturated, **Heavy Weight Braided** Fiberglass Won't Burn, Melt, or Become **Brittle**
- Minimal Dusting When Cut & Handled
- Cut and Abrasion Resistant
- Easy to Install Cuts with Scissors
- Resists Gasoline and **Engine Chemicals**



Insultherm resin saturated braided fiberglass sleeving is ideal in areas where fire and extremely high temperatures create a hazard to personnel and equipment.



Hoses insulated with Insultherm can perform better in the demanding environments where multi terrain equipment is used.



Resin Saturated Fiberglass Protects Up To 1,200°F

INSULTHERM (FGN) 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.

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

FGN is available in a wide range of diameters. It installs easily over a variety of applications to either deflect or retain heat in environments up to 1,200°F.



Nominal	Part	Maximum	Wall	Standard Spool Put-Ups		Available	Lbs/
Size # Diameter Thickn		Thickness	Bulk Spool	Shop Spool	Colors	100′	
1/4"	FGN0.25	3/8"	.031"	200′	50′	SV & BK	2.00
3/8″	FGN0.38	5/8″	.043"	200′	50′	SV & BK	3.30
1/2″	FGN0.50	3/4"	.046"	200′	50′	SV & BK	4.80
5/8"	FGN0.63	7/8″	.046"	200′	50′	SV & BK	5.30
3/4"	FGN0.75	1 1/8"	.046"	200′	50′	SV & BK	6.40
7/8″	FGN0.88	1 1/4"	.046"	200′	50′	SV & BK	8.70
1″	FGN1.00	1 5/8"	.057"	100′	25′	SV & BK	10.50
1 1/2"	FGN1.50	2 5/8"	.061"	100′	25′	SV & BK	16.00
2 1/2"	FGN2.50	4 1/8″	.071″	100′	25′	SV & BK	19.70



- 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**



Material

Resin Coated Fiberglass

Grade

FGN

Wall Thickness

Refer to Chart

Drawing Number

TF001INS-WD



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

Put-Ups

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.

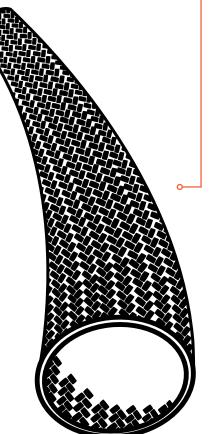
"...will withstand extreme heat...
provides the protection needed"

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

Colors Available:



Black (BK) and Silver (SV).



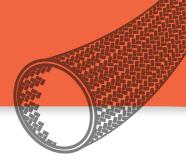
- Colors Available:

2 = BK and SV













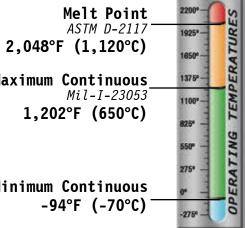
**ABRASION ** FLAMMABILITY

Rating

2,048°F (1,120°C)

Maximum Continuous

Minimum Continuous -94°F (-70°C)



www.techflex.com

Abrasion Resistance Hiah

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



1=No Effect 2=Little Effect 4=More Affected

VW-1

5=Severely Affected 3=Affected

Aromatic Solvents ______ 1 Aliphatic Solvents ______ 1 Chlorinated Solvents ______ 1 Weak Bases 1 Salts Strong Bases ______ 1 Salt Water 0-S-1926_______ 1 Hydraulic Fluid MIL-H-5606 ______ 1 Lube Oil MIL-L-7808 De-Icing Fluid *MIL-A-8243* ______ 1 Strong Acids ______ 2

Strong Oxidants ______ 2 Esters/Ketones ______ 1 UV Light ______ 2 Petroleum Fungus *ASTM G-21* ______ 1 Halogen Free Yes RoHS Yes



Monofilament Diameter ASTM D-204	NA		
Flammability Rating	VW-1		
Recommended Cutting	Scissor		
Colors	2		
Wall Thickness	031061		
Specific Gravity ASTM D-792_	1.0-1.8		
Moisture Absorption % ASTM D-570	.01		
Hard Vacuum Data ASTM E-595			
TML	.02		
CVCM	.01		
WVR	.00		
Outgassing	Low		