

- Heavy Weight Braided Fiberglass Won't Burn, Melt, or Become Brittle
- Minimal Dusting When Cut & Handled
- Cut & Abrasion Resistant
- Easy To Install
- Resists Gasoline & Engine Chemicals



**Cut Cleanly**  
Scissors

**Material**  
Acrylic Coated Fiberglass

**Grade**  
FGS

**Wall Thickness**  
Refer to Chart

**Drawing Number**  
TF001INS-WD

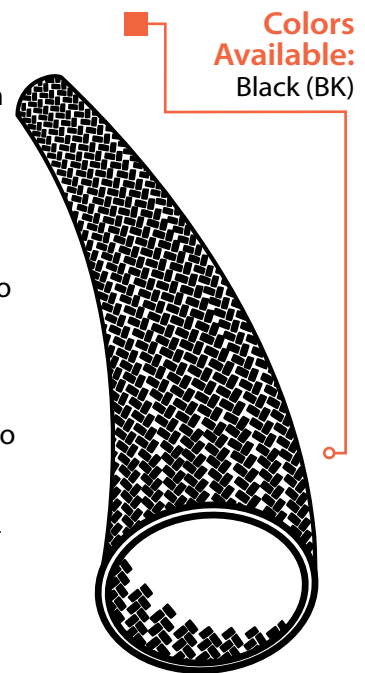
**Put-Ups**

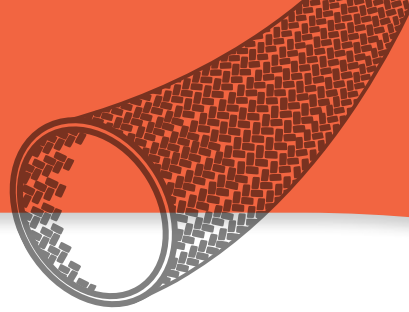
Nominal Size	Part #	Maximum Diameter	Wall Thickness	Bulk Spool	Shop Spool	Available Colors	Lbs/100'
1/2"	FGS0.50BK	7/8"	0.050"	200'	50'	1	7.30
3/4"	FGS0.75BK	2 3/4"	0.058"	200'	50'	1	13.60
1"	FGS1.00BK	2 1/2"	0.073"	200'	50'	1	17.00
1 1/4"	FGS1.25BK	3 3/8"	0.072"	100'	25'	1	21.70
1 3/8"	FGS1.38BK	4 3/8"	0.072"	100'	25'	1	24.75
1 1/2"	FGS1.50BK	5 3/8"	0.090"	100'	25'	1	27.80

### Heat Treated, Fray-Resistant Fiberglass Sleaving

INSULTHERM (HD) Heavy Duty is a braided fiberglass sleaving made in a heavy wall construction with a high temp cord braided into the sleaving. Insultherm HD is saturated with high temperature acrylic resins which adds rigidity and reduces fray when cut. The high temperature fiberglass cord braided into the sleaving adds significant abrasion protection and allows the sleaving to expand to much larger diameters, making it easier to apply over longer lengths.

Insultherm HD is ideal heat protection for cables and hoses in a wide range of available sizes and will withstand 1,200°F temperatures. This sleaving is designed to provide thermal insulation and protection for EGR tubes, fuel lines, hydraulic and industrial hose applications as well as many welding and automotive applications.





**ABRASION**  **FLAMMABILITY**

**Abrasion Resistance**  
**Medium**

Rating \_\_\_\_\_ UL VW-1

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

 **CHEMICAL  
RESISTANCE**

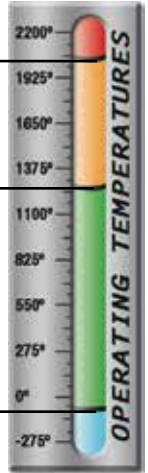
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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  
FMVSS-302 Approved  
Recommended Cutting \_\_\_\_\_ Scissor  
Colors \_\_\_\_\_ 1  
Wall Thickness \_\_\_\_\_ .050-.090  
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

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