

# INSULTHERM™ ULTRAFLEXX

- **UL Recognized**
- **Continuous Filament E-Type Glass**
- **Resists Abrasion, Vibration, And Mechanical Stress**
- **Easy To Install - Cuts With Scissors**
- **Stays Flexible In Low Temps**

**Put-Ups**

Nominal Size	Part #	Wall Thickness	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
			Min.	Max.				
1/4"	FHN0.25NT	0.010"	1/4"	5/16"	250'	100'	Natural	1.00
3/8"	FHN0.38NT	0.012"	3/8"	1/2"	250'	100'	Natural	1.20
1/2"	FHN0.50NT	0.013"	1/2"	5/8"	100'	50'	Natural	1.60
5/8"	FHN0.63NT	0.024"	5/8"	3/4"	100'	50'	Natural	3.00
3/4"	FHN0.75NT	0.024"	3/4"	7/8"	100'	50'	Natural	3.80
1"	FHN1.00NT	0.024"	1"	1 1/4"	100'	50'	Natural	4.30



**Cut Cleanly**  
**Scissors**

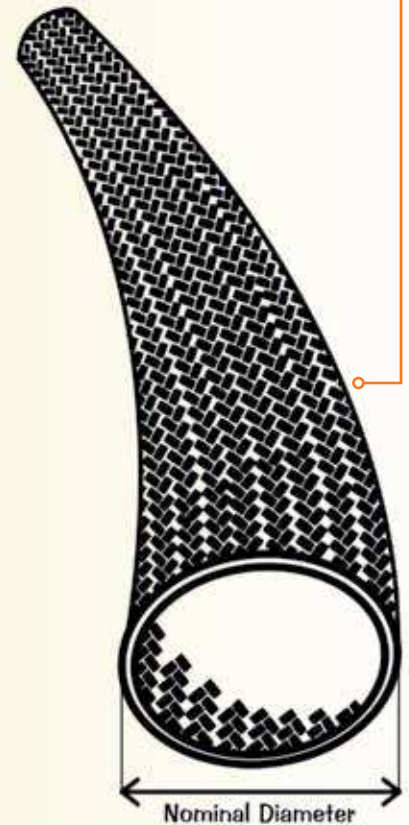
## Braided Fiberglass Protects up to 1,200°F

INSULTHERM ULTRAFLEXX fiberglass sleeving is ideal for the protection of wires and hoses exposed to the heat generated from high performance engine and exhaust components.

The heat treated sleeving cuts with scissors and is compatible with most bonding and saturation systems.

Ultraflexx expands slightly, allowing it to slide easily over wires and follow curves and contours without binding.

- **Colors Available:**  
 Natural (NT)



“...will withstand extreme heat... provides the protection needed”

<b>Material</b>	<b>Fiberglass</b>
<b>Grade</b>	<b>FHN</b>
<b>Wall Thickness</b>	<b>Refer to Chart</b>



**INSULTHERM™ ULTRAFLEXX**



**Abrasion Resistance**  
**Medium**

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

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

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

**Room Temperature**  
**78°F**

**Humidity**  
**72%**

**Material Destroyed**  
**100 Test Cycles**

**Pre-Test Weight**  
**3,374.0 mg**

**Post-Test Weight**  
**2,839.3 mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**534.7 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 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/Keytones _____	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)**

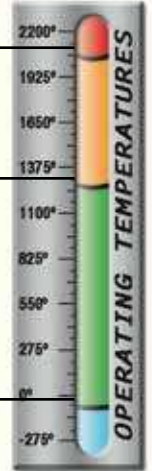
**Maximum Continuous**

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 \_\_\_\_\_ **1**

Wall Thickness \_\_\_\_\_ **.010-.024**

Tensile Strength (Yarn) \_\_\_\_\_  
ASTM D-2256 Lbs

Specific Gravity ASTM D-792 \_\_\_\_\_ **1.0-1.8**

Moisture Absorption \_\_\_\_\_ **.01**  
% ASTM D-570

Hard Vacuum Data ASTM E-595 at 10<sup>-5</sup> torr

TML \_\_\_\_\_ **.01**

CVCM \_\_\_\_\_ **.00**

WVR \_\_\_\_\_ **.00**

Smoke D-Max \_\_\_\_\_  
ASTM E-662

Outgassing \_\_\_\_\_ **Low**

Oxygen Index \_\_\_\_\_  
ASTM D-2863

www.techflex.com