

# 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**

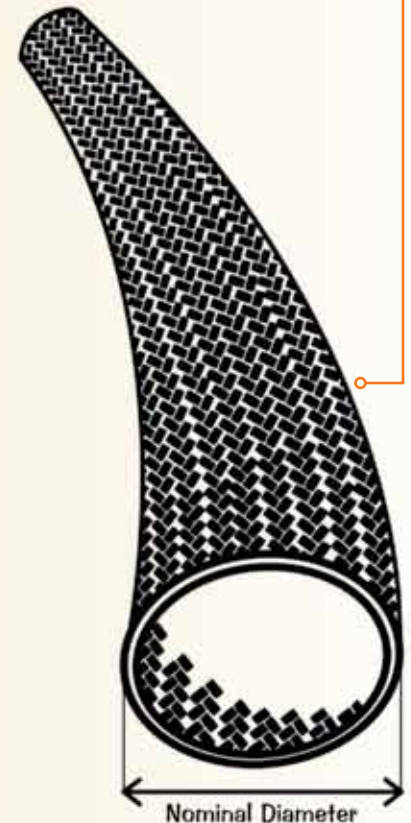
## Braided Fiberglass Protects up to 1,200°F

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”

**Material**  
**Fiberglass**

**Grade**  
**FHN**

**Wall Thickness**  
**Refer to Chart**

# 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)**

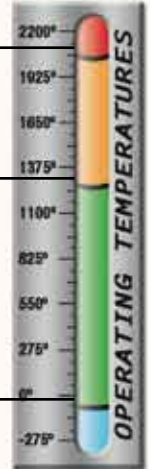
**Maximum Continuous**

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 10-5 torr**

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

**CVCN** \_\_\_\_\_ **.00**

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

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

**Oxygen Index** \_\_\_\_\_ **Low**

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