

# INSULTHERM™ ULTRAFLEXX PRO

- **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.				
1/2"	FHH0.50NT	0.025"	3/8"	5/8"	100'	50'	Natural	3.50
3/4"	FHH0.75NT	0.040"	5/8"	1 5/32"	100'	50'	Natural	8.00
1"	FHH1.00NT	0.032"	7/8"	1 3/8"	50'	25'	Natural	7.00
1 1/4"	FHH1.25NT	0.035"	1"	1 3/4"	50'	25'	Natural	10.50
1 1/2"	FHH1.50NT	0.035"	1 1/8"	2 1/8"	50'	25'	Natural	10.00



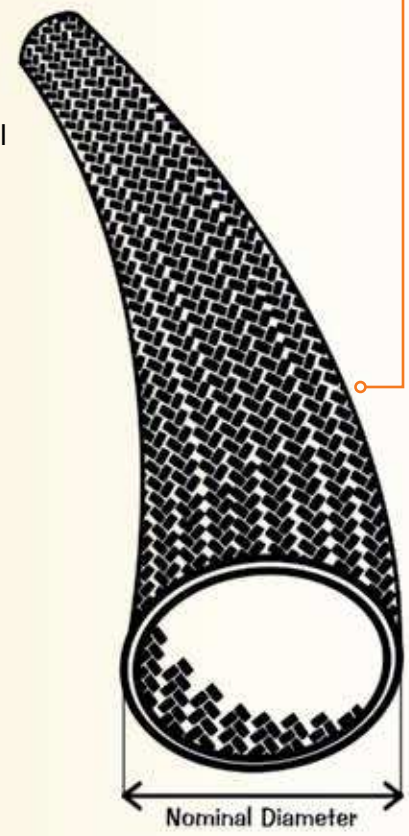
**Expands Up To 50%  
 For Easy Installation**

## Heavy Wall Fiberglass Protects To 1,200°F

The heavy wall (1/32") construction, large available diameters and high expandability of Ultraflex Pro provides a high level of protection and ease of installation when used to insulate pipes and hoses subject to abrasion and vibration.

Ultraflex Pro cuts easily with scissors, and special heat treated construction minimizes fraying and dusting during assembly.

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



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

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



**INSULTHERM™ ULTRAFLEXX PRO**



**Abrasion Resistance**  
**Medium**

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

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

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

**Room Temperature**  
**75°F**

**Humidity**  
**72%**

**Individual Fibers Visibly Broken**  
**150 Test Cycles**

**Braid Worn Through In One Direction**  
**500 Test Cycles**

**Material Destroyed**  
**525 Test Cycles**

**Pre-Test Weight**  
**\*20,831.10 mg**

**Post-Test Weight**  
**\*19,203.20 mg**

**Test End Loss Of Mass Point Of Destruction**  
**1,140.51 mg**

**\*Weight Includes Mounting Card**



Rating \_\_\_\_\_ **VW-1**



**Chemical Resistance**

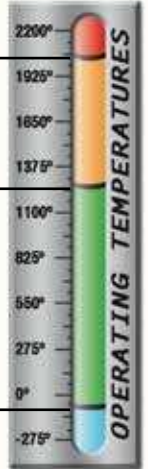
1=No Effect    4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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	_____	.025-.035
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