## **EXTREME TEMPERATURES** Technical Data Sheet



# **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



Material

**Fiberglass** 

Grade

FHN

Wall Thickness Refer to Chart

						Put-Ups ¬			
Nominal Size	Part #	Wall Thickness	Expansion Range		Bulk	Shop	Available	Lbs/	
			Min.	Max.	Spool	Spool	Colors	100'	
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	

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

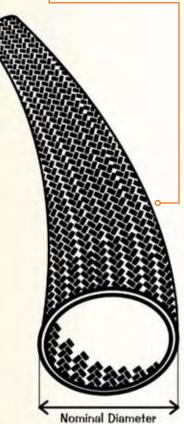
INSULTHERM ULTRAFLEXX fiberglass sleeving is ideal for the protection of wires and hoses exposed to the heat generated from high performance engine and exhaust components.

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.

"...will withstand extreme heat... provides the protection needed" Colors Available:

Natural (NT)







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# 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



# Chemical Resistance



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

J-Anecieu	
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 <i>MIL-H</i> -5606	1
Lube Oil MIL-L-7808	1
<b>De-Icing Fluid</b> <i>MIL-A-8243</i>	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	2200-
ASTM D-2117	1925*-
<b>2,048°F (1,120°C)</b>	1650*-
Maximum Continuous	1375-
Mil-I-23053	1100*
<b>1,202°F (650°C)</b>	825

Minimum Continuous -94°F (-70°C)\_

# www.techflex.dk

ERATING TEMPERATURES

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# PROPERTIES

Monofilament Diame ASTM D-204	terNA				
Flammability Rating	VW-1				
<b>Recommended Cutti</b>	ngScissor				
Colors	1				
Wall Thickness	.010024				
Tensile Strength (Yar ASTM D-2256 Lbs	n)				
Specific Gravity ASTM D-7921.0-1.8					
Moisture Absorption % ASTM D-570	.01				
Hard Vacuum Data ASTM E-595 at 10-5 torr					
TML	.01				
CVCM	.00				
WVR	.00				
Smoke D-Max ASTM E-662					
Outgassing	Low				
Oxygen Index ASTM D-2863					

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