## **EXTREME TEMPERATURES** Technical Data Sheet



Put-lins \_\_\_\_

# 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



**For Easy Installation** 

#### Material

**Fiberglass** 

Grade

FHH

Wall Thickness Refer to Chart

Nominal	Part #	Wall Thickness	Expansion Range		Bulk	Shop	Available	Lbs/
Size			Min.	Max.	Spool	Spool	Colors	100′
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

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

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

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

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



**TECHFLEX** Braided Sleeving Products www.techflex.dk



## EXTREME TEMPERATURES **Technical Data Sheet**



# 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** 



Chemical Resistance

```
1=No Effect 4=More Affected
     2=Little Effect 5=Severely Affected
     3=Affected
Aromatic Solvents
Aliphatic Solvents
Chlorinated Solvents_____1
Weak Bases _____
Salts_____
Strong Bases_____1
Salt Water 0-S-1926_____1
Hydraulic Fluid MIL-H-5606 _____1
Lube Oil MIL-L-7808
De-Icing Fluid MIL-A-8243 1
Strong Acids _____
Strong Oxidants
Esters/Keytones _____1
UV Light
Petroleum
Fungus ASTM G-21____
```

Halogen Free \_\_\_\_\_ Yes

RoHS \_\_\_\_\_

SVHC

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)\_

1

1

2

2

2

1

1

Yes

None

# PHYSICAL

Monofilament Diameter ASTM D-204	NA
Flammability Rating	VW-1
Recommended Cutting	Scissor
Colors	1
Wall Thickness	
Tensile Strength (Yarn) ASTM D-2256 Lbs	
Specific Gravity ASTM D-792	1.0-1.8
Moisture Absorption % ASTM D-570	01
Hard Vacuum Data ASTM E-5	95 at 10-5 torr
TML	.01
CVCM	.00
WVR	.00
Smoke D-Max ASTM E-662	
Outgassing	Low
Oxygen Index ASTM D-2863	

TEMPERATUR

ERATING

1375

1100\*

275

275

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