THERMA SHIELD

THERMASHIELD WRAP

- **Economical And Easy To Install**
- **Cuts Easily With Scissors**
- **Reflects Radiant Heat**
- **Insulates Delicate Wires And Components**
- **Resists Gasoline And Engine Chemicals**
- **Custom Lengths Available**

Cut Cleanly
Scissors

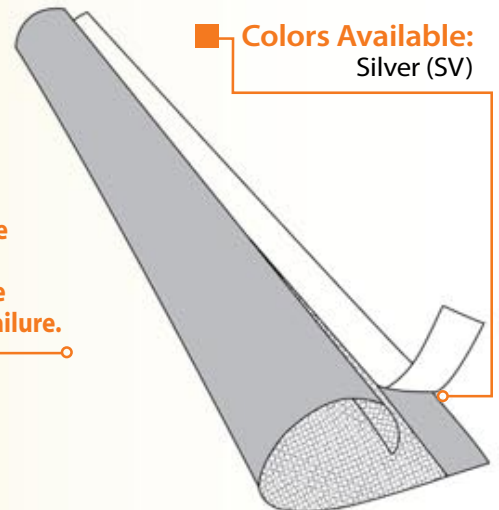| NOMINAL SIZE	SHEET WIDTH	WALL THICKNESS	PART #	BULK SPOOL	SHOP SPOOL	RETAIL	CLAM	BAG	AVAILABLE COLORS	LBS/ 100'
1"	3 3/4"	.009"	TWN1.00	200'	100'	n/a	10'	n/a	Silver	5.10
1 1/4"	4 1/2"	.009"	TWN1.25	200'	100'	n/a	10'	n/a	Silver	5.70
1 1/2"	5 1/4"	.009"	TWN1.50	200'	100'	n/a	10'	n/a	Silver	6.50
1 3/4"	6"	.009"	TWN1.75	100'	50'	n/a	5'	n/a	Silver	7.40
2"	6 1/2"	.009"	TWN2.00	100'	50'	n/a	5'	n/a	Silver	8.40
2 1/4"	7 1/2"	.009"	TWN2.25	100'	50'	n/a	5'	n/a	Silver	9.50

Put-Ups

Reflective Aluminized Surface Bonded to Insulating Fiberglass

THERMASHIELD creates a buffer between your wires, hoses and cables and the high temperature environments they are required to perform in. ThermaShield is engineered by laminating an aluminum heat shield to a layer of strong fiberglass insulation. This system provides superior protection from radiant heat by reflecting it away from sensitive electronics, wiring and hoses.

THERMASHIELD WRAP (TWN). When component disassembly isn't an option, TWN is the solution. Designed to fit securely around existing assemblies and hard to reach components, the flat material is joined along the edge with a strip of permanent, high temperature adhesive. The aggressive bonding agent will securely adhere anywhere along the width of the material, affording maximum protection and allowing a snug fit around odd-shaped connectors and terminations.

Material
Aluminum Laminated Fiberglass

Grade
TW

Wall Thickness
.009"

Drawing Number
TF001TW-WD

Colors Available:
Silver (SV)

When applied, the aluminum laminate reflects heat away and the insulating fiberglass backing protects the fragile contents from thermal damage and failure.

TECHFLEX
Braided Sleeving Products
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HALOGEN FREE

RoHS Compliant

TECHFLEX SPEC
Specified Material

THERMA SHIELD

THERMASHIELD WRAP

ABRASION

Abrasion Resistance
ASTM D-4157
Extremely High

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
70°F

Humidity
57%

General Dulling Of Shiny Foil Layer But No Wear-Through
400 Test Cycles

Foil Layer Worn Through In Several Places. Due To Adhesive And Flatness Of Material, Fiberglass Layer Smooths Out And Remains Intact
1,000 Test Cycles

Friction Of Abrasion And Adhesive Cause Some Foil Redistribution Over Exposed Fiberglass Layer
2,500 Test Cycles

Foil Layer Worn Through But Fiberglass Is Intact
6,000 Test Cycles

Fiberglass Layer Worn Through Material Destroyed
9,400 Test Cycles

FLAMMABILITY
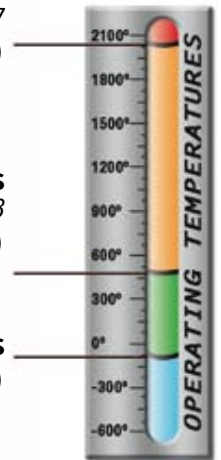
Non Combustible / Will not Burn

Chemical Resistance

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

Aromatic Solvents _____
Aliphatic Solvents _____
Chlorinated Solvents _____
Weak Bases _____
Salts _____
Strong Bases _____
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 _____
Strong Oxidants _____
Esters/Keytones _____
UV Light _____ 1
Petroleum _____ 1
Fungus *ASTM D-2863* _____
Outgassing _____
Oxygen Index *ASTM D-2863* _____
Halogen Free _____ Yes

Melt Point
ASTM D-2117
1,120°C (2,048°F)

Maximum Continuous
Mil-I-23053
255°C (491°F)

Minimum Continuous
-60°C (-76°F)

OPERATING TEMPERATURES

PHYSICAL PROPERTIES

Wall Thickness _____ .009
Recommended Cutting _____ Scissor
Stock Colors _____ 1
Tensile Strength PSI _____
    ASTM D-2256
Tenacity (GM/Denier) *ASTM D-4157* _____
Specific Gravity *ASTM D-792* _____
Typical Elongation *ASTM D-2256-80*
Break _____
3g/Denier _____
Hard Vacuum Data *ASTM E-595 at 10-5 torr*
TML _____
CVCM _____
WVR _____

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