EXTREME TEMPERATURES
Technical Data Sheet

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

				Put-Ups						
Nominal Size	Part #	Sheet Width	Wall Thickness ±0.008″	Bulk Spool	Shop Spool	Retail	Clam	Bag	Available Colors	Lbs/ 100′
1/2″	TWN0.50	1 1/2″	0.025″	200′	100′	n/a	10′	n/a	Silver	2.60
3/4″	TWN0.75	2 1/4″	0.025″	200′	100′	n/a	10′	n/a	Silver	4.00
1″	TWN1.00	3 3/4″	0.025″	200′	100′	n/a	10′	n/a	Silver	5.10
1 1/4″	TWN1.25	4 1/2″	0.025″	200′	100′	n/a	10′	n/a	Silver	5.70
1 1/2″	TWN1.50	5 1/4″	0.025″	200′	100′	n/a	10′	n/a	Silver	6.50
1 3/4″	TWN1.75	6″	0.025″	100′	50′	n/a	5′	n/a	Silver	7.40
2″	TWN2.00	6 1/2″	0.025″	100′	50′	n/a	5′	n/a	Silver	8.40
2 1/4″	TWN2.25	7 1/2″	0.025″	100′	50′	n/a	5′	n/a	Silver	9.50

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

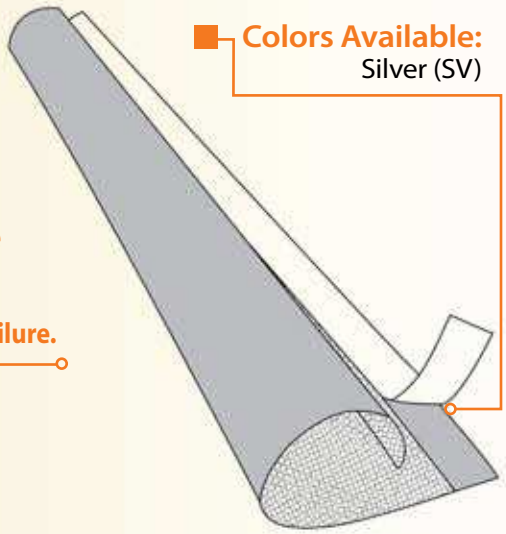
Grade
TWN

Wall Thickness
.025″

Drawing Number
TF001TW-WD

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

Colors Available:
Silver (SV)



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HALOGEN FREE

RoHS Compliant

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THERMASHIELD WRAP

ABRASION

Abrasion Resistance
Very High

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
70°F

Humidity
57%

Foil Layer Worn Through
1,000 Test Cycle

Fiberglass Layer Worn Through - Material Destroyed
1,300 Test Cycles

FLAMMABILITY

Rating

Non Combustible / Will not Burn

Chemical Resistance

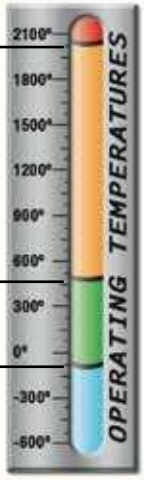
1=*No Effect* 2=*Little Effect* 3=*Affected* 4=*More Affected* 5=*Severely Affected*

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	1
Petroleum	1
Fungus *ASTM G-21*	1
Halogen Free	Yes
RoHS	Yes
SVHC	

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

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

Minimum Continuous
-76°F (-60°C)



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PHYSICAL PROPERTIES

Monofilament Diameter *ASTM D-204*	NA
Flammability Rating	Non Combustible
Recommended Cutting	Scissor
Colors	1
Wall Thickness	.025