THERMA SHIELD® FLAT

EXTREME
TEMPERATURE
Technical Data Sheet

- 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 #	Wall Thickness ±0.006"	Bulk Spool	Shop Spool	Available Colors	Lbs/ 100'
1"	TSN1.00SV	0.025"	250'	100'	Silver (SV)	1.60
1 1/2"	TSN1.50SV	0.025"	250'	100'	Silver (SV)	2.00
2"	TSN2.00SV	0.025"	250'	100'	Silver (SV)	2.75
3"	TSN3.00SV	0.025"	250'	100'	Silver (SV)	4.30
4"	TSN4.00SV	0.025"	250'	100'	Silver (SV)	5.60
5"	TSN5.00SV	0.025"	200'	100'	Silver (SV)	7.60
6"	TSN6.00SV	0.025"	100'	50'	Silver (SV)	9.20
6 7/8"	TSN6.88SV	0.025"	100'	50'	Silver (SV)	10.90

Reflective Aluminized Surface Bonded To Insulating Fiberglass

Cut Cleanly
Scissors

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 FLAT (TSN) protects surfaces exposed to extreme heat with TSN. An aluminum laminated fiberglass sheet with a full coating of permanent, high temperature adhesive, applies directly to any clean surface. Ideal solution for protecting delicate electronic component boxes mounted close to engines or other heat sources. When applied, the aluminum laminate reflects heat away and the insulating fiberglass backing protects the fragile contents from thermal damage and failure.

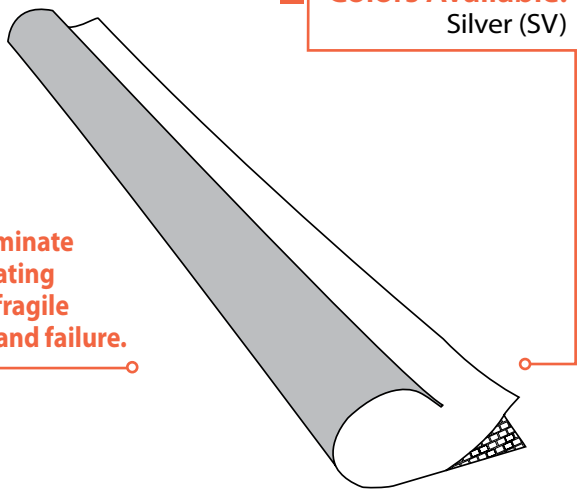
Material
Aluminum Laminated Fiberglass

Grade
TSN

Wall Thickness
.025"

Drawing Number
TF001TS-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
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HALOGEN FREE FAR-25

RoHS Compliant

EXTREME
TEMPERATURE
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THERMA SHIELD® FLAT

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

Pre-Test Weight
10,804.3 mg

Post-Test Weight
9,918.5 mg

Test End Loss Of Mass Point Of Destruction
885.8 mg

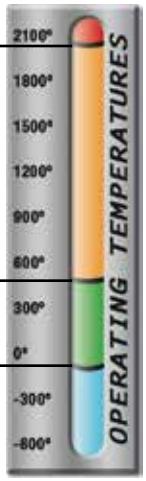
FLAMMABILITY

Rating _____ Non Combustible
Will not burn

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)



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/Ketones	1
UV Light	1
Petroleum	1
Fungus *ASTM G-21*	1
Halogen Free	Yes
RoHS	Yes

PHYSICAL PROPERTIES

Flammability Rating	Non Combustible
Recommended Cutting	Scissor
Colors	1
Wall Thickness	.025

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