EXTREME TEMPERATURES Technical Data Sheet

THERMA SHIELD

THERMASHIELD FLAT

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



Material

Aluminum Laminated Fiberglass

Grade TSN

Wall Thickness

.025″

Drawing Number TF001TS-WD



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				_ P	ut-Up	s —			
Nominal Size	Part #	Wall Thickness ±0.006"	Bulk Spool	Shop Spool	Retail	Clam	Bag	Available Colors	Lbs/ 100'
1″	TSN1.00	0.025″	200′	100′	50′	25′	10′	Silver	1.60
1 1/2″	TSN1.50	0.025″	200′	100′	50′	25′	10′	Silver	2.00
2″	TSN2.00	0.025″	200′	100′	50′	25′	10′	Silver	2.75
3″	TSN3.00	0.025″	200′	100′	50′	25′	10′	Silver	4.30
4″	TSN4.00	0.025″	200′	100′	50′	25′	10′	Silver	5.60
5″	TSN5.00	0.025″	200′	100′	50′	25′	10′	Silver	7.60
6″	TSN6.00	0.025″	100′	50′	25′	n/a	10′	Silver	9.20
7″	TSN7.00	0.025″	100′	50′	25′	n/a	10′	Silver	10.90
8″	TSN8.00	0.025″	100′	50′	25′	n/a	10′	Silver	12.70

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 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.

Colors Available: Silver (SV).

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THERMASHIELD FLAT



Abrasion Resistance Very High

Abrasion Test Machine <mark>Taber 5150</mark>

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



Rating_____ Non Combustible / Will not Burn

Chemical Resistance

	-
1	=Ne
2	e_Li

esistance =No Effect 4=More Affected

2=Little Effect 5=Severel 3=Affected	y Affected
Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	1
Salt Water 0-S-1926	
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	
Petroleum	
Fungus ASTM G-21	1
Halogen Free	Yes
RoHS	
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)

600

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PROPERTIES

	ilament Diamet <u>1 D-204</u>	erNA
Flamm	nability Rating_	_Non Combustible
Recon	<mark>nmende</mark> d Cuttir	ngScissor
Colors		1
Wall T	hickness	.025

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