



Product Description

EMS Material Designation	B1
ASTM Type	TM1
Numer of Layers	2
Standard Marking	TRUFLEX B1-TM1
Remarks	Best all purpose 0 to 300 °F (-20 to 150°C)

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F) (100 to 300°F)	150 X 10 ⁻⁷ (in/in)/°F 146 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C) (38 to 149°C)		27.0 X 10 ⁻⁶ (mm/mm)/°C 26.3 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range		-100 to 700°F	-70 to 370°C
Recommended Maximum Temperature		1000°F	540°C
Electrical Resistivity @75°F (24°C)		456 to 494 *OCMF	0.758 to 0.821 uohms m

Physical Properties

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METRIC

Density	0.295 Lb/in ³	8.17 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot