



Data Sheet

Product Description

EMS Material Designation	B1
ASTM Type	TM1
Number 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)	150	X 10 ⁻⁷ (in/in)/°F	--	
	(100 to 300°F)	146	X 10 ⁻⁷ (in/in)/°F		
Specific Curvature	(10-93°C)	--		27.0	X 10 ⁻⁶ (mm/mm)/°C
	(38 to 149°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	μohms m

Physical Properties

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

*Ohms-Circular-Mil / Foot