



Data Sheet

Product Description

EMS Material Designation	B11
ASTM Type	--
Number of layers	2
Standard Marking	TRUFLEX B11
Remarks	Best all purpose 150 to 450 °F (65 to 232 °C)



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Low Expansion Alloy	Alloy 11	39% Ni, Bal Fe

Thermostatic Properties

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	141	X 10 ⁻⁷ (in/in)/°F	--	
	(100 -300°F)	141	X 10 ⁻⁷ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		25.4	X 10 ⁻⁶ (mm/mm)/°C
	(38 -149°C)	--		25.4	X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	150 to 450	°F		70 to 230	°C
Useful Deflection Temperature Range	-100 to 1000	°F		-70 to 540	°C
Recommended Maximum Temperature	1000	°F		540	°C
Electrical Resistivity @ 75°F (24°C)	438 to 465	*OCMF		0.728 to 0.773	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

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