



Product Description

EMS Material Designation	P850R
ASTM Type	TM8
Numer of Layers	2
Standard Marking	TRUFLEX P850R
Remarks	Highest Resistivity

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity	(50-200°F)	156 X 10 ⁻⁷ (in/in)/°F
	(100 to 300°F)	159 X 10 ⁻⁷ (in/in)/°F
Specific Curvature	(10-93°C)	28.1 X 10 ⁻⁶ (mm/mm)/°C
	(38 to 149°C)	28.6 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 400°F	-20 to 200°C
Useful Deflection Temperature Range	-100 to 500°F	-70 to 260°C
Recommended Maximum Temperature	800°F	430°C
Electrical Resistivity @75°F (24°C)	808 to 893 *OCMF	1.34 to 1.48uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.267 Lb/in ³	7.38 g/cm ³
Modulus of Elasticity (E)	19.5 Msi	134 GPa

*Ohms-Circular-Mil / Foot