



Product Description

EMS Material Designation	P90R
ASTM Type	
Numer of Layers	4
Standard Marking	TRUFLEX P90R
Remarks	Low Resistivity, High Flexivity, General Use 0 to 400°F

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 10	64% Fe, Bal Ni

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexitivity (100-300°F)	204 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (38-149°C)		36.7 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	700°F	370°C
Electrical Resistivity @ 75°F (24°C)	84.6 to 95.4 OCMF*	0.141 to 0.159 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.281 Lb/in ³	7.73 g/cm ³
Modulus of Elasticity (E)	19 Msi	131 GPa

*Ohms-Circular-Mil / Foot