



Product Description

EMS Material Designation	P3
ASTM Type	TM23
Numer of Layers	2
Standard Marking	TRUFLEX P3
Remarks	Uniform flexivity increase with increasing temperature

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Low Expansion Alloy	Alloy 30	42% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	182 X 10 ⁻⁷ (in/in)/°F	
(100 to 300°F)	185 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		32.8 X 10 ⁻⁶ (mm/mm)/°C
(38 to 149°C)		33.3 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	200 to 600°F	90 to 320°C
Useful Deflection Temperature Range	-100 to 600°F	-70 to 320°C
Recommended Maximum Temperature	800°F	430°C
Electrical Resistivity @75°F (24°C)	542 to 588 *OCMF	0.901 to 0.977 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.276 Lb/in ³	7.64 g/cm ³
Modulus of Elasticity (E)	19.0 Msi	131 GPa

*Ohms-Circular-Mil / Foot