



Product Description

EMS Material Designation	P500R
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX P500R
Remarks	Good corrosion resistance in aqueous environments

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy P	72% Mn, 18% Cu, 10% Ni
Center Layer	Alloy 50	50% Ni, Bal Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (50-200°F)	202 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		36.4 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)	480 to 520 OCMF*	0.798 to 0.864 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.281 Lb/in ³	7.77 g/cm ³
Modulus of Elasticity (E)	21 Msi	145 GPa

*Ohms-Circular-Mil / Foot