

Product Description

EMS Material Designation	BP1
ASTM Type	
Numer of Layers	3
Standard Marking	TRUFLEX BP1
Remarks	Better Corrosion Resistance and Joining Compared to P675R

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Alloy P	72% Mn, 18% Cu, 10% Ni
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (100-300°F)	185 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (38-149°C)		33.3 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300°F	-20 to 150°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)	617 to 683 *OCMF	1.025 to 1.135 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.278 Lb/in ³	7.70 g/cm ³
Modulus of Elasticity (E)	20.0 Msi	138 GPa

*Ohms-Circular-Mil / Foot