

Product Description

EMS Material Designation	E1
ASTM Type	TM36
Numer of Layers	2
Standard Marking	TRUFLEX E1
Remarks	Good all purpose 0 to 300°F (-20 to 150°C) Higher Resistivity

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy		25% Ni, 8.5% Cr, Bal Fe
Low Expansion Alloy		36% Ni, Bal Fe

Thermostatic Properties
ENGLISH
METRIC

ASTM Flexivity	(100-300°F)	148 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(38-149°C)		23.9 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range		-100 to 700°F	-70 to 370°C
Recommended Maximum Temperature		1000°F	540°C
Electrical Resistivity @ 75°F (24°C)		485 to 515 *OCMF	0.806 to 0.856 uohms-m

Physical Properties
ENGLISH
METRIC

Density	0.295 Lb/in ³	8.16 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot