

Product Description

EMS Material Designation	E5
ASTM Type	TM5
Numer of Layers	2
Standard Marking	TRUFLEX E5
Remarks	Best all purpose 300 to 800°F (150 to 425°C)

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy E	25% Ni, 8.5% Cr, Bal Fe
Low Expansion Alloy	Alloy 50	50% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F)	64 X 10 ⁻⁷ (in/in)/°F	
	(100 to 300°F)	64 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C)		11.5 X 10 ⁻⁶ (mm/mm)/°C
	(38 to 149°C)		11.5 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		300 to 800°F	150 to 430°C
Useful Deflection Temperature Range		-100 to 1000°F	-70 to 540°C
Recommended Maximum Temperature		1000°F	540°C
Electrical Resistivity @ 75°F (24°C)		332 to 368 *OCMF	0.552 to 0.612 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.297 Lb/in ³	8.22 g/cm ³
Modulus of Elasticity (E)	25.5 Msi	176 GPa

*Ohms-Circular-Mil / Foot