

Product Description

EMS Material Designation	E3
ASTM Type	TM3
Numer of Layers	2
Standard Marking	TRUFLEX E3
Remarks	Good all purpose 200 to 600°F (93 to 316°C)

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy E	25% Ni, 8.5% Cr, Bal Fe
Low Expansion Alloy	Alloy 30	42% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F) (100 to 300°F)	103 X 10 ⁻⁷ (in/in)/°F 106 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C) (38 to 149°C)		18.5 X 10 ⁻⁶ (mm/mm)/°C 19.1 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		200 to 600°F	90 to 320°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)		422 to 458 *OCMF	0.701 to 0.761 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.295 Lb/in ³	8.17 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot