

Product Description

EMS Material Designation	C3
ASTM Type	TM18
Numer of Layers	2
Standard Marking	TRUFLEX C3
Remarks	High strength, all purpose 200 to 600°F (93 to 316°C)

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy C	19.4% Ni, 2.25% Cr, 0.5% C, Bal Fe
Low Expansion Alloy	Alloy 30	42% Ni, Bal Fe

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity	(50-200°F) (100 to 300°F)	117 X 10 ⁻⁷ (in/in)/°F 120 X 10 ⁻⁷ (in/in)/°F
Specific Curvature	(10-93°C) (38 to 149°C)	21.1 X 10 ⁻⁶ (mm/mm)/°C 21.6 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	200 to 600°F	90 to 320°C
Useful Deflection Temperature Range	-100 to 800°F	-70 to 430°C
Recommended Maximum Temperature	1000°F	540°C
Electrical Resistivity @ 75°F (24°C)	403 to 437 *OCMF	0.670 to 0.726 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.296 Lb/in ³	8.18 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot