



Product Description

EMS Material Designation	E70R20
ASTM Type	
Numer of Layers	3
Standard Marking	
Remarks	Low Electrical Resistivity and Medium Flexivity

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy E	25% Ni, 8.5% Cr, Bal Fe
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 20	40% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F)	117 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C)		21.0 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		100 to 550°F	38 to 288°C
Useful Deflection Temperature Range		-100 to 700°F	-72 to 371°C
Recommended Maximum Temperature		700°F	370°C
Electrical Resistivity @ 75°F (24°C)		63 to 76 *OCMF	0.105 to 0.126 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.298 Lb/in ³	8.25 g/cm ³
Modulus of Elasticity (E)	23 Msi	159 GPa

*Ohms-Circular-Mil / Foot