



Product Description

EMS Material Designation	F30R
ASTM Type	TM25
Numer of Layers	3
Standard Marking	TRUFLEX F30R
Remarks	Low Electrical Resistivity and Medium Flexivity

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Center Layer	Copper	Cu
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe

Thermostatic Properties

ENGLISH

METRIC

ASTM Flexivity	(50-200°F)	140 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature	(10-93°C)		25.2 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range		0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range		-100 to 500°F	-70 to 260°C
Recommended Maximum Temperature		700°F	370°C
Electrical Resistivity @ 75°F (24°C)		28 to 32 *0CMF	0.047 to 0.053 uohms-m

Physical Properties

ENGLISH

METRIC

Density	0.305 Lb/in ³	8.43 g/cm ³
Modulus of Elasticity (E)	23 Msi	161 GPa

*Ohms-Circular-Mil / Foot