



## Data Sheet

### Product Description

EMS Material Designation	B250R
ASTM Type	TM14
Number of layers	3
Standard Marking	TRUFLEX B250R
Remarks	Intermediate Resistivity, General Purpose 0 to 300°F (-20 to 150°C)



### Chemical Composition

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

### Thermostatic Properties

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	147	X 10 <sup>-7</sup> (in/in)/°F	--	
	(100-300°F)	143	X 10 <sup>-7</sup> (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		26.5	X 10 <sup>-6</sup> (mm/mm)/°C
	(38-149°C)	--		25.7	X 10 <sup>-6</sup> (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300	°F		-20 to 150	°C
Useful Deflection Temperature Range	-100 to 700	°F		-70 to 370	°C
Recommended Maximum Temperature	1000	°F		540	°C
Electrical Resistivity @ 75°F (24°C)	236 to 264	*OCMF		0.392 to 0.439	μ-ohm-m

### Physical Properties

		ENGLISH		METRIC	
Density	0.298	Lb/in <sup>3</sup>		8.25	g/cm <sup>3</sup>
Modulus of Elasticity (E)	25.5	Msi		176	GPa

\*Ohms-Circular-Mil / Foot

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