



Data Sheet

Product Description

EMS Material Designation	B100R30
ASTM Type	--
Number of layers	3
Standard Marking	--
Remarks	Intermediate Resistivity, Special Use 200 to 550 °F (93 to 288 °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 30	42% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	90	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		16.2	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	200 to 550	°F	93 to 288	°C
Useful Deflection Temperature Range	-100 to 1000	°F	-73 to 538	°C
Recommended Maximum Temperature	1000	°F	540	°C
Electrical Resistivity @ 75°F (24°C)	95 to 105	OCMF*	0.158 to 0.175	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.307	Lb/in ³	8.5	g/cm ³
Modulus of Elasticity (E)	26.5	Msi	183	GPa

*Ohms-Circular-Mil / Foot

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