B100R30

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**B100R30**
ASTM Type	
Numer of Layers	**3**
Stardard Marking	
Remarks	**Intermediate Resistivity, Special Use 200 to 550°F (93 to 288°C)**

Chemical Composition

	Grade	Chemistry
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 Flextivity	(50-200°F)	90 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		16.2 X 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 uohms-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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