



Data Sheet

Product Description

EMS Material Designation	GB5
ASTM Type	--
Number of layers	2
Standard Marking	--



Remarks **General purpose 300° to 800°F (150° to 425°C). Higher Flexivity than E5.**

Chemical Composition

	Grade	Chemistry
High Expansion Alloy	Alloy GB	19% Ni, 7% Cr, Bal Fe
Low Expansion Alloy	Alloy 50	50% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	75	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		13.5	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	300 to 800	°F	150 to 430	°C
Useful Deflection Temperature Range	-100 to 1000	°F	-70 to 540	°C
Recommended Maximum Temperature	1000	°F	540	°C
Electrical Resistivity @ 75°F (24°C)	324 to 360	OCMF*	.538 to .598	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.296	Lb/in ³	8.19	g/cm ³
Modulus of Elasticity (E)	26	Msi	179	GPa

*Ohms-Circular-Mil / Foot

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