



Data Sheet

Product Description

EMS Material Designation	F55R20
ASTM Type	--
Number of layers	3
Standard Marking	--
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 20	40% Ni, Bal Fe

Thermostatic Properties

	ENGLISH		METRIC	
ASTM Flexivity (50-200°F)	130	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature (10-93°C)	--		23.4	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	100 to 500	°F	38 to 288	°C
Useful Deflection Temperature Range	-100 to 700	°F	-70 to 370	°C
Recommended Maximum Temperature	700	°F	370	°C
Electrical Resistivity 75°F (24°C)	50 to 58	OCMF*	0.083 to 0.096	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.300	Lb/in ³	8.53	g/cm ³
Modulus of Elasticity (E)	22	Msi	152	GPa

*Ohms-Circular-Mil / Foot

Rev 0 - 11/21/2014