



Data Sheet

Product Description

EMS Material Designation	GB14
ASTM Type	--
Number of layers	2
Standard Marking	TRUFLEX GB14
Remarks	Good corrosion resistance in aqueous environments



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy GB	19% Ni, 7% Cr, Bal Fe
Low Expansion Alloy	Alloy 14	38% Ni, 7% Cr, Bal Fe

Thermostatic Properties

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	100	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	100	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		18.0	$\times 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		18.0	$\times 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range		0 to 300	°F	-20 to 150	°C
Useful Deflection Temperature Range		-100 to 1000	°F	-70 to 540	°C
Recommended Maximum Temperature		1000	°F	540	°C
Electrical Resistivity @ 75° (24°C)		486 to 536	OCMF*	0.808 to 0.891	μ ohms-m

Physical Properties

	ENGLISH		METRIC	
Density	0.294	Lb/in ³	8.12	g/cm ³
Modulus of Elasticity (E)	26.0	Msi	179	GPa

*Ohms-Circular-Mil / Foot