



Data Sheet

Product Description

EMS Material Designation	B3
ASTM Type	TM30
Number of layers	2
Standard Marking	TRUFLEX B3
Remarks	Best all purpose 200 to 600°F (93 to 316°C)



Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Low Expansion Alloy	Alloy 30	42% Ni, Bal Fe

Thermostatic Properties

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	118	$X 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	122	$X 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		21.25	$X 10^{-6}$ (mm/mm)/°C
	(38-149°C)	--		22.00	$X 10^{-6}$ (mm/mm)/°C
Maximum Sensitivity Temperature Range	200 to 600	°F		90 to 320	°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)	403 to 427	*OCMF		0.669 to 0.710	μohms m

Physical Properties

	ENGLISH		METRIC	
Density	0.296	Lb/in ³	8.18	g/cm ³
Modulus of Elasticity (E)	25	Msi	172	GPa

*Ohms-Circular-Mil / Foot

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