

Product Description

EMS Material Designation	S363
ASTM Type	
Numer of Layers	4
Standard Marking	
Remarks	Good corrosion resistance in aqueous environments

Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
Corrosion Resistant Layer	S30500	12% Ni, 18.5% Cr, 0.8% Mn, 0.5% Si
High Expansion Alloy	Alloy B	22% Ni, 3% Cr, Bal Fe
Low Expansion Alloy	Alloy 10	36% Ni, Bal Fe
Corrosion Resistant Layer	S30100	7% Ni, 16.7% Cr, 0.9% Mn, 0.5% Si

Thermostatic Properties

	ENGLISH	METRIC
ASTM Flexivity (100-200°F)	115 X 10 ⁻⁷ (in/in)/°F	
Specific Curvature (10-93°C)		20.7 X 10 ⁻⁶ (mm/mm)/°C
Maximum Sensitivity Temperature Range	0 to 300°F	-20 to 150°C
Useful Deflection Temperature Range	-100 to 500°F	-70 to 260°C
Recommended Maximum Temperature	1000°F	540°C
Electrical Resistivity @ 75°F (24°C)	456 to 494 OCMF*	0.758 to 0.821 uohms-m

Physical Properties

	ENGLISH	METRIC
Density	0.292 Lb/in ³	8.08 g/cm ³
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot