

## Product Description

<b>EMS Material Designation</b>	<b>F70R</b>
<b>ASTM Type</b>	<b>TM27</b>
<b>Numer of Layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX F70R</b>
<b>Remarks</b>	<b>Low Electrical Resistivity and Medium Flexivity</b>

## Chemical Composition

	<u>Grade</u>	<u>Chemistry</u>
<b>High Expansion Alloy</b>	Alloy B	22% Ni, 3% Cr, Bal Fe
<b>Center Layer</b>	Copper	Cu
<b>Low Expansion Alloy</b>	Alloy 10	36% Ni, Bal Fe

## Thermostatic Properties

	<b>ENGLISH</b>	<b>METRIC</b>
ASTM Flexivity (50-200°F)	147 X 10 <sup>-7</sup> (in/in)/°F	
(100-300°F)	145 X 10 <sup>-7</sup> (in/in)/°F	
Specific Curvature (10-93°C)		26.5 X 10 <sup>-6</sup> (mm/mm)/°C
(38-149°C)		26.1 X 10 <sup>-6</sup> (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	700°F	370°C
Electrical Resistivity @ 75°F (24°C)	66 to 75 OCMF*	0.108 to 0.125 u-ohm-m

## Physical Properties

	<b>ENGLISH</b>	<b>METRIC</b>
Density	0.299 Lb/in <sup>3</sup>	8.27 g/cm <sup>3</sup>
Modulus of Elasticity (E)	24.5 Msi	169 GPa

\*Ohms-Circular-Mil / Foot