



## Data Sheet

### Product Description

<b>EMS Material Designation</b>	<b>F35R</b>
<b>ASTM Type</b>	--
<b>Number of layers</b>	<b>3</b>
<b>Standard Marking</b>	<b>TRUFLEX F35R</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

		ENGLISH		METRIC	
ASTM Flexivity	(50-200°F)	143	$\times 10^{-7}$ (in/in)/°F	--	
	(100-300°F)	135	$\times 10^{-7}$ (in/in)/°F	--	
Specific Curvature	(10-93°C)	--		25.7	$\times 10^{-6}$ (mm/mm)/°C
	(38 -149°C)	--		24.3	$\times 10^{-6}$ (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	700	°F		370	°C
Electrical Resistivity @ 75°F (24°C)	32.5 to 37.5	OCMF*		0.054 to 0.062	$\mu$ ohms-m

### Physical Properties

		ENGLISH		METRIC	
Density	0.303	Lb/in <sup>3</sup>		8.38	g/cm <sup>3</sup>
Modulus of Elasticity (E)	23.5	Msi		164	GPa

\*Ohms-Circular-Mil / Foot