F100R

Engineered Materials Solutions
Wickeder Group

Product Description

EMS Material Designation	**F100R**
ASTM Type	
Numer of Layers	**3**
Stardard Marking	**TRUFLEX F100R**
Remarks	**Intermediate Electrical Resistivity and Medium Flexivity**

Chemical Composition

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

Thermostatic Properties		ENGLISH	METRIC
ASTM Flextivity	(50-200°F)	149 X 10^{-7} (in/in)/°F	
Specific Curvature	(10-93°C)		26.8 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		700°F	370°C
Electrical Resistivity @ 75°F (24°C)		95 to 105 *OCMF	0.158 to 0.175 uohms-m

Physical Properties	ENGLISH	METRIC
Density	0.297 Lb/in^3	8.23 g/cm^3
Modulus of Elasticity (E)	25 Msi	172 GPa

*Ohms-Circular-Mil / Foot

America
Dilip Patil
Product Manager
Phone: +1 508 342 2317
Email: dpatil@emsclad.com

America
Eric Schriver
Product Manager
Phone: +1 610 562 3841
Email: vsimkhovich@emsclad.com

Asia
C.W. Kong
General Manager
Phone: +86 514 8891 6888
Email: c.w.kong@wickedergroup.com.cn

Europe
James Craggs
European Business Manager
Phone: +44 (0)7799 358 150
Email: jcraggs@emsclad.com