



Product Description

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|--------------------------|---|
| EMS Material Designation | C11 |
| ASTM Type | TM19 |
| Numer of Layers | 2 |
| Standard Marking | TRUFLEX C11 |
| Remarks | High strength, all purpose 150 to 450°F (65 to 232°C) |

Chemical Composition

| | <u>Grade</u> | <u>Chemistry</u> |
|----------------------|--------------|------------------------------------|
| High Expansion Alloy | Alloy C | 19.4% Ni, 2.25% Cr, 0.5% C, Bal Fe |
| Low Expansion Alloy | Alloy 11 | 38.65% Ni, Bal Fe |

Thermostatic Properties

| | ENGLISH | METRIC |
|---------------------------------------|-----------------------------------|------------------------------------|
| ASTM Flexivity (100-300°F) | 141 X 10 ⁻⁷ (in/in)/°F | |
| Specific Curvature (10-93°C) | | 25.4 X 10 ⁻⁶ (mm/mm)/°C |
| Maximum Sensitivity Temperature Range | 150 to 450°F | 66 to 232°C |
| Useful Deflection Temperature Range | -100 to 900°F | -73 to 482°C |
| Recommended Maximum Temperature | 1000°F | 540°C |
| Electrical Resistivity @ 75°F (24°C) | 433 to 479 *OCMF | 0.720 to 0.796 uohms-m |

Physical Properties

| | ENGLISH | METRIC |
|---------------------------|--------------------------|------------------------|
| Density | 0.295 Lb/in ³ | 8.17 g/cm ³ |
| Modulus of Elasticity (E) | 25 Msi | 172 GPa |

*Ohms-Circular-Mil / Foot