



## Product Description

|                                 |  |
|---------------------------------|--|
| <b>EMS Material Designation</b> | <b>B2</b>  |
| <b>ASTM Type</b>                | <b>TM6</b>   |
| <b>Numer of Layers</b>          | <b>2</b>   |
| <b>Standard Marking</b>         | <b>TRUFLEX B2</b>                                  |
| <b>Remarks</b>                  | <b>Best all purpose 100 to 550°F (38 to 260°C)</b> |

## Chemical Composition

|                             | <u>Grade</u> | <u>Chemistry</u>      |
|-----------------------------|--------------|-----------------------|
| <b>High Expansion Alloy</b> | Alloy B      | 22% Ni, 3% Cr, 75% Fe |
| <b>Low Expansion Alloy</b>  | Alloy 20     | 40% Ni, 60% Fe        |

## Thermostatic Properties

### ENGLISH

### METRIC

|                                       |            |                                   |                                    |
|---------------------------------------|------------|-----------------------------------|------------------------------------|
| ASTM Flexivity                        | (50-200°F) | 133 X 10 <sup>-7</sup> (in/in)/°F |                                    |
| Specific Curvature                    | (10-93°C)  |                                   | 23.9 X 10 <sup>-6</sup> (mm/mm)/°C |
| Maximum Sensitivity Temperature Range |            | 100 to 550°F                      | -40 to 290°C                       |
| Useful Deflection Temperature Range   |            | -100 to 1000°F                    | -70 to 540°C                       |
| Recommended Maximum Temperature       |            | 1000°F                            | 540°C                              |
| Electrical Resistivity @ 75°F / 20°C) |            | 422 to 458 OCMF*                  | 0.701 to 0.761 uohms-m             |

## Physical Properties

### ENGLISH

### METRIC

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

\*Ohms-Circular-Mil / Foot