# Cold Rolled Strip

## Thermostatic bimetal (high linearity range)


Aperam bimetals “BS… series” find very wide application regarding its large linearity range deflection at high temperature, and its good transformation performance.

### International standards

DIN-1715 , ASTM-B388

### Typical Chemical composition

| | |
|---|---|
| **Passive Component** | Fe Ni42 |
| **Intermediate layer** | Copper |
| **Active Component** | Fe Ni20 Mn6 |

### Standard Delivery & dimensions available

| Form of delivery | Marking | Thickness | Width | Length | Temper |
|---|---|---|---|---|---|
| • Strip in standard coil<br>• Traverse wound spool<br>• Sheet | By Etching Or Stamping | 0.10 to 2.0 mm | 1.0 to 200 mm | 500 to 3500 mm | Hard |

### Nominal values at room temperature

| Aperam designation | Designation DIN (ASTM) | Spec thermal curvature (10e-06/K°) | Spec thermal deflection (10e-06/K°) | Linearity range (°C) | Upper limit (°C) | Electrical resistivity µΩ.m | Density g/cm3 |
|---|---|---|---|---|---|---|---|
| **BS** | TB1170A | 22.0 +/-4% | 11.7 | -20 to +380 | 450 | 0.70 +/-4% | 8.1 |
| **BS9** | TB1109 | 21.8 +/-4% | 11.6 | -20 to +380 | 450 | 0.09 +/-5% | 8.2 |

*The data enclosed in this document are only given as indicative values and correspond to our standard product. Different specific requirement are subject to discussion and formal approval by Aperam Alloys Imphy. For further information or special request, please contact us.*

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