

## Cold Rolled Strip

### Thermostatic bimetal high flexivity



Aperam bimetals “SP series” are thermally the most active bimetal types. They are principally used in case where large deflection is required by a moderate temperature change of a small active length.

#### 1. Description, standards & chemical

##### International standards

DIN-1715, ASTM-B388

##### Chemical composition (% weight)

<b>Passive Component</b>	Fe Ni36
<b>Intermediate layer</b>	Fe – Cu – CuNi2
<b>Active Component</b>	Mn Cu18 Ni10

#### 2. Standard delivery & dimensions available

Form of delivery	Marking	Thickness	Width	Length	Temper
<ul style="list-style-type: none"> <li>Strip in standard coil</li> <li>Traverse wound spool</li> <li>Sheet</li> </ul>	By Etching or Stamping	0.10 to 2.0 mm	1.0 to 200 mm	500 to 3500 mm	Hard

#### 3. 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
<b>108SP</b>	TB20110 (TM2)	39.0 +/-4%	20.8	-20 to +200	350	1.10 +/-4%	7.6
<b>140SP</b>	(TM8)	28.6 +/-4%	15.5	-20 to +200	350	1.40 +/-5%	7.4
<b>60SPS</b>	TB2060	38.5 +/-4%	20.5	-20 to +200	350	0.600 +/-5%	7.8
<b>50SPS</b>	TB2050	38.5 +/-4%	20.5	-20 to +200	350	0.500 +/-5%	7.8
<b>40SPS</b>	TB2040	38.5 +/-4%	20.5	-20 to +200	350	0.415 +/-5%	7.8
<b>30SPC</b>	TB2030	38.5 +/-4%	20.5	-20 to +200	350	0.300 +/-7%	7.8
<b>25SPC</b>	TB2025	38.5 +/-4%	20.5	-20 to +200	350	0.250 +/-7%	7.8
<b>20SP</b>	TB2020	38.5 +/-4%	20.5	-20 to +200	350	0.208 +/-7%	7.8
<b>15SP</b>	TB2015	38.2 +/-4%	20.4	-20 to +200	350	0.150 +/-7%	7.8
<b>11SP</b>	TB2011	38.2 +/-4%	20.4	-20 to +200	350	0.115 +/-7%	7.9
<b>8SP</b>	TB2008	38.0 +/-4%	20.2	-20 to +200	350	0.082 +/-9%	8.0
<b>5SP</b>	TB1805 (TM31)	33.8 +/-4%	17.9	-20 to +200	350	0.048 +/-9%	8.2

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