

Cold Rolled Strip

Thermostatic bimetal high flexivity



Description, standards & chemical

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.

International standards

DIN-1715, ASTM-B388

Chemical composition (% weight)

Passive Component	Fe Ni36
Intermediate layer	Fe - Cu – CuNi2
Active Component	Mn Cu18 Ni10

Standard delivery & dimensions available

Form of delivery	Marking	Thickness	Width	Length	Temper
<ul style="list-style-type: none"> Strip in standard coil Traverse wound spool 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
IMPHY 108SP	TB20110 (TM2)	39.0 +/-4%	20.8	-20 to +200	350	1.10 +/-4%	7.6
IMPHY 140SP	(TM8)	28.6 +/-4%	15.5	-20 to +200	350	1.40 +/-5%	7.4
IMPHY 60SPS	TB2060	38.5 +/-4%	20.5	-20 to +200	350	0.600 +/-5%	7.8
IMPHY 50SPS	TB2050	38.5 +/-4%	20.5	-20 to +200	350	0.500 +/-5%	7.8
IMPHY 40SPS	TB2040	37.5 +/-4%	20.5	-20 to +200	350	0.415 +/-5%	7.8
IMPHY 30SP	TB2030	38.5 +/-4%	20.5	-20 to +200	350	0.300 +/-7%	7.8
IMPHY 25SP	TB2025	38.5 +/-4%	20.5	-20 to +200	350	0.250 +/-7%	7.8
IMPHY 20SP	TB2020	38.5 +/-4%	20.5	-20 to +200	350	0.208 +/-7%	7.8
IMPHY 15SP	TB2015	38.2 +/-4%	20.4	-20 to +200	350	0.150 +/-7%	7.8
IMPHY 11SP	TB2011	38.2 +/-4%	20.4	-20 to +200	350	0.115 +/-7%	7.9
IMPHY 8SP	TB2008	38.0 +/-4%	20.2	-20 to +200	350	0.082 +/-9%	8.0
IMPHY 5SP	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.

Aperam Alloys Imphy

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