Cold rolled strip
Thermostatic bimetal - High Flexivity

BIMETAL

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

Passive Component	Fe Ni36
Intermediate layer	Fe Cu
Active Component	Mn Cu18 Ni10

Standard delivery & dimensions available

Form of delivery	Marking	Thickness	Width	Length (Sheet)	Temper
> Strip in standard coil > Traverse wound spool > Sheet	By Etching or Stamping	0.10 to 2 mm	1 to 300 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	0.580 +/-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 10SP	TB2010	38.0 +/-4%	20.2	-20 to +200	350	0.010 +/-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

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