

Cold rolled strip

Thermostatic bimetal - Large Temperature Range

BIMETAL

Aperam BIMETALS "AS... series" find very wide application regarding its high constant deflection, and its good transformation performance.

International standards

DIN-1715, ASTM-B388

Chemical composition

Passive Component	Fe Ni36
Intermediate layer	Fe Cu
Active Component	Fe Ni20 Mn6

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 AS	TB1577A (TM29)	28.5 +/-4%	15.5	-20 to +200	450	0.78 +/-5%	8.1
IMPHY AS55	TB1555	28.2 +/-4%	15.0	-20 to +200	450	0.55 +/-5%	8.2
IMPHY AS35S	TB1435	27.4 +/-4%	14.8	-20 to +200	450	0.35 +/-5%	8.3
IMPHY AS25	TB1425	26.1 +/-4%	14.0	-20 to +200	450	0.25 +/-5%	8.3
IMPHY AS17	TB1417	27.7 +/-4%	14.7	-20 to +200	400	0.17 +/-7%	8.2
IMPHY AS11	TB1511	27.8 +/-4%	15.0	-20 to +200	400	0.11 +/-7%	8.2
IMPHY AS6	TB1406	26.9 +/-4%	14.5	-20 to +200	400	0.06 +/-7%	8.4

