Cold rolled strip
Thermostatic bimetal - Corrosion Resistance & Protection

BIMETAL

Aperam BIMETAL "IN540" find very wide application regarding its corrosion resistance, and is suitable for use in contact with water or steam atmosphere.
IMPHY IN540 - IMPHY S68 - IMPHY S9 grade serie is particularly suited for snap-acton discs.
IMPHY BS - IMPHY BS9 grade serie is particularly suited for large linearity range at high temperature.

International standards

DIN-1715, ASTM-B388

Chemical composition

		Active side		
		Fe Ni19 Cr7	Fe Ni22 Cr3	Fe Ni Mn6
Passive side	Fe Ni38 Cr7	IMPHY IN540		
	Ni 36			IMPHY BS IMPHY BS9 (+Copper)
	Ni 39		IMPHY S75	
	Ni 40		IMPHY S9 (+Copper)	
	Ni 42		IMPHY S68	

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 IN540	-	18.5 +/-4%	10	-20 to +200	500	0.85 +/-5%	8.1
IMPHY S75	-	26.1 +/-4%	13.9	-20 to +300	400	0.75 +/-5%	8.15
IMPHY S68	TM 30	21.5 +/-4%	11.45	-20 to +380	450	0.68 +/-5%	8.1
IMPHY S9	-	24.5 +/-4%	13	-20 to +380	400	0.09 +/-7%	8.3
IMPHY BS	TB 1170A	22.0 +/-4%	11.7	-20 to +380	450	0.70 +/-5%	8.1
IMPHY BS9	TB 1109	21.8 +/-4%	11.6	-20 to +380	400	0.09 +/-7%	8.25

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