Cold Rolled Strip

1. Description, standards & chemical

PHYTHERM 260 is an iron-nickel-copper-chromium soft magnetic alloy suitable for cookware for induction cooking. The maximum working temperature is controlled by an adapted ferromagnetic alloy with a specific Curie point.

International standards

IEC 404

Chemical composition (% weight)

	Ni	Cr	Fe
Typical value	50	9	Bal

2. Physical properties

Density (g/cm³)	Melting T° (°C - °F)	Curie T° (°C - °F)	Thermal expansion ($10^{-6}.°K^{-1}$)	Resistivity (µΩcm)	Thermal conduction (W/°Km)	Specific heat ($J.Kg^{-1}.°K^{-1}$)
8.25	-	260 – 500	10,5	100	-	-

3. Mechanical properties

Temper	Hardness (HV)	Grain size	Tensile strength (MPa - KSI)	Yield strength (MPa - KSI)	Elongation (%)	Young's modulus (MPa - KSI)
Soft	125	8	500 - 72	-	40	-
Hard	230	-	800 – 116	-	3	-

Typical values for material to be tested in accordance with NF EN 10002, NF EN ISO 6507, NFA 04102

4. Standard delivery & dimensions available

Form *	Thickness(mm / ")	Width (mm / ")	Length (mm / ")	Temper
Coil - Sheet - Disc	0.30-1 / .012- .0394	10-640 / .4-25.2	500-3500 / 19.7-137.8	Soft / Hard

** Depending on thickness, width or diameter & temper*

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

Aperam Alloys Imphy
B.P. 1
Avenue Jean Jaurès
F- 58160 Imphy

Tel + 33 3 86 21 30 00
Fax + 33 3 86 21 31 00
nickel.alloys@aperam.com
www.aperam.com/alloys-imphy