

Cold Rolled Strip



Nicrimphy 800 is a Nickel-Chromium alloy used when resistance to oxidation, carburization and other type of high temperature corrosion is needed. Nicrimphy 800 presents a good corrosion resistance to many aqueous media and a good resistance to stress corrosion cracking.

Nicrimphy 800 is used for electrical heating elements, furnace components and equipments, heat exchangers, cracking tubes.

International standards

Werkstoff Nr 1.4876 - ASTM B409 – ASTM A240
UNS N08800 – AMS 5871

Chemical composition (%weight), main elements

Ni	Cr	Fe
30,0 - 34,0	19,0 - 23,0	39,5 min
Ti:	Al	
0,15 - 0,60	0,15 - 0,60	

Physical properties

Density (g/cm ³)	Melting T° (°C)	Coefficient of Thermal Expansion between 20 and 100°C (10 ⁻⁶ .°C ⁻¹)	Resistivity at 20°C (μΩ.cm)	Thermal conductivity (W/(°Cm))	Specific heat at 20°C (J.Kg ⁻¹ .°C ⁻¹)
8,0	1370	15	99	13	500

Nicrimphy 800 is non magnetic

Mechanical properties (Typical values)

Temper	Hardness (HV)	Tensile strength (MPa)	Yield strength (MPa)	Elongation (%)
Annealed	150	600	250	35

Standard delivery form & dimensions

Form *	Thickness (mm)	Width (mm)	Length (mm)	Temper
Coil - Sheet	0,10 to 1,5	10 to 640	500 to 3500	Annealed

* Depending on thickness, width & temper

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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