

Cold Rolled Strip



Nicrimphy 600 is a nickel chromium alloy designed to offer good corrosion and oxidation resistance. It has also good mechanical properties over a wide range of temperatures. Nicrimphy 600 is used for: automotive industry (airbag components, heat screens, gaskets, exhaust systems..), muffles, furnace components, heating elements, aircraft industry, chemical industry, food and pharmaceuticals industries.

International standards

Werkstoff Nr 2.4816 - ASTM B168
UNS N06600 – AMS 5540

Chemical composition (% weight), main elements

Ni	Cr	Fe
72,0 min	14,0 – 17,0	6,0 – 10,0

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)
8,43	1370 -1425	13,3	103	14,7	460

Nicrimphy 600 is non magnetic

Mechanical properties (Typical values)

Temper	Hardness (HV)	Tensile strength (MPa)	Yield strength (MPa)	Elongation (%)
Annealed	160	650	300	35

Standard delivery form & dimensions

Form *	Thickness (mm)	Width (mm)	Length (mm)	Temper
Coil - Sheet	0,10 to 1,6	10 to 640	500 to 3500	Annealed

* Depending on thickness, width & temper

Nicrimphy 600 can also be delivered in thickness higher than 1,6mm or in the hard condition, upon request

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.