

Cold Rolled Strip



N475 is an iron-nickel chromium controlled expansion alloy suitable to soft glass sealing, with optimal chemical composition to obtain hermetic seals.

International standards

DIN 17745 - W 2.4486 - SEW 385

Chemical composition %weight

	Ni	Co	Fe
Typical value	47	5	Bal

Standard Delivery & dimensions available

Form	Thickness	Width	Length	Temper
Strip - Sheet	0.10 to 3.50 mm	10 to 640 mm	500 to 3500 mm	Annealed / Hard

Physical properties

Density (g/cm ³)	Resistivity at 20°C (μohm.cm)	Melting T° (°C)	Curie T° (°C)	Specific heat (J/g °C)	Thermal conductivity at 20°C (W/m/°C)
8.15	87	1450	340	0.50	13.4

25 to 400°C

Guaranteed linear CTE (10-6/°C) 9.4 to 10.0

Mechanical properties (Typical values)

	Hardness Hv	Ultimate strength (MPa)	Yield strength (MPa)	Elongation %	Young modulus KN/mm ²
Annealed	140	540	250	35	155
Hard	230	730	700	4	

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

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