

## Cold Rolled Strip



### 1. Description, standards & chemical

N426 is an iron-nickel chromium controlled expansion alloy suitable to soft glass sealing, with optimal chemical composition to obtain hermetic seals.

#### International standards

ASTM F31 - W 1.3946 - A54-301

#### Chemical composition (% weight)

	Ni	Cr	Fe
Typical value	42	6	Bal

### 2. 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

### 3. Physical properties

Density (g/cm <sup>3</sup> )	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)
8.10	93	1450	270	0.50	13.8

	25 to 400°C
Average linear CTE (10-6/°C)	9.7 to 10.3

### 4. Mechanical properties (typical values)

	Hardness Hv	Ultimate strength (MPa)	Yield strength (MPa)	Elongation %	Young modulus KN/mm <sup>2</sup>
Annealed	130	520	240	35	159
Hard	220	720	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.