



## Nicrimphy 840

### 1. CHEMICAL COMPOSITION (Weight %)

Element	Ni	Cr	Ti	Al	Fe
typical value	20	20	0,4	0,4	bal

### 2. PHYSICAL PROPERTIES

Density (g/cm <sup>3</sup> )	Resistivity (μΩ.cm)	Melting T° (°C)	Thermal expansion (10 <sup>-6</sup> /°C)	Thermal conductivity (W/m/°C)
7,9	89	1350	17	12,9

### 3. MAGNETIC PROPERTIES

-Non magnetic

### 4. MECHANICAL CHARACTERISTICS (typical values)

Metallurgical state	Hv Hardness	Yield strength (MPa)	Tensile strength (MPa)	% Elongation
Annealed	160	240	570	>30

### 5. ROUGHNESS-SURFACE

➤ Typical Ra = 0,15 μm

### 6. DIMENSIONS

Thicknesses(mm)	Thickness tolerance	Width tolerance (mm)			
		W ≤ 100	100 < W ≤ 150	150 < W ≤ 300	300 < W ≤ 650
0.10 to 1,0	+/-3%	+0/+0,20	+0/+0,30	+0/+0,40	+0/+0,50
> 1,0 to 4,5	+/-3%	+0/+0,40	+0/+0,50	+0/+0,50	+0/+0,60

- Other thicknesses : consult us
- Width above 650mm (1000mm max) can be reached on demand.

### 7. FORM

Temper	Annealed
Edge burr	≤ 10 % of the thickness
Edgewise curvature	3 mm/m

### 8. PACKAGING

➤ Packaging must be suitable to prevent the metal from damage during transportation or stocking in normal conditions.

Coils weight	Order ≥ 500 kg	Order ≥ 1000 kg	Order ≥ 3000 kg
80% of the delivery	≥ 0,8 kg per mm wide	≥ 1,6 kg per mm wide	≥ 2 kg per mm wide
20% of the delivery		≥ 0,75 kg per mm wide	1 to 2 kg per mm wide
typical weight		2 kg/mm wide	4 to 5 kg per mm wide

➤ Standard Internal diameter : 400mm with inner core for thicknesses ≤ 0,3mm.

### 9. CERTIFICATE

➤ Chemical composition, mechanical properties

### 10. INTERNATIONAL SPECIFICATIONS

Compliant with UNS S33400, W 1.4847