



## Pure Nickel – Cold rolled strip

1. **Chemical composition:** ArcelorMittal Stainless and Nickel Alloys can produce pure nickel according to the following standards

- UNS N02200 – UNS N02201 – UNS N02205
- Werkstoff (Ni99.6/ W2.4060) – (LC-Ni99.6 / W2.4061) – (Ni99.2/ W2.4066) – (LC-Ni99/ 2.4068)

2. **Physical properties: (indicative values)**

| Density (g/cm <sup>3</sup> ) | Elect Resistivity (%.IACS) | Melting T° (°C) | Thermal conductivity (W/m °K) | Specific heat (J/kg/°C) | Curie T°(°C) |
|------------------------------|----------------------------|-----------------|-------------------------------|-------------------------|--------------|
| 8,9                          | 20.2                       | 1450            | 75,3                          | 440                     | 355          |

3. **Mechanical properties:**

Material to be tested in accordance with ASTM specification E8

| Temper    | Hardness (Hv) |
|-----------|---------------|
| Annealed  | 90 - 115      |
| Skin hard | 110 – 130     |
| ¼ hard    | 125 – 150     |
| ½ hard    | 150 – 175     |
| ¾ hard    | 170 – 200     |
| Full hard | Above 200     |

4. **Roughness – Surface:**

- Ra ≤ 0,3 µm
- Good surface, free from scratches or oxidation or defects that might be detrimental to use.

5. **Dimensions:**

| Thickness (mm) * |      | Width    |
|------------------|------|----------|
| 0.10 to 0.30     | ± 5% | 6 to 620 |
| 0.31 to 1.20     | ± 5% | 640 max  |
| 1.21 to 3.50     | ± 5% | 660 max  |

(\* ) For specific tolerances, please consult us.

| Shape:             | 0.10 ≤ thickness ≤ 1.50 mm   | 1.51 ≤ thickness ≤ 3.50 mm |
|--------------------|--|----------------------------|
| Edge burr          | ≤ 10 % of the thickness  | ≤ 10 % of the thickness    |
| Edgewise curvature | ≤ 1,5 mm/m   | ≤ 3 mm/m                   |
| Coil set           | ≤ 40mm/300mm (measured on sample handing straight up)<br>only for thickness ≤ 0.5 mm | Not measured               |

6. **Packaging:**

| Std Internal diameter | 0.10 ≤ thickness ≤ 2.50 mm                                  | thickness ≥ 2.51    |
|-----------------------|---|---------------------|
|                       | 400 mm<br>(with inner bakelite core for thickness ≤ 0.5 mm) | 500 mm (preferable) |

- Packaging must be suitable to prevent the metal from damage during transportation or stocking in normal conditions
- Coils weight

|                     | order ≥ 1000kg  | order ≥ 3000kg       |
|---------------------|-----------------|----------------------|
| 80% of the delivery | ≥1 kg/mm wide   | ≥2kg per mm wide     |
| 20% of the delivery | ≥0,5 kg/mm wide | 1 a 2 kg per mm wide |
| typical weight      | 1.5 kg/mm wide  | 4 to 5kg /mm wide    |

7. **Certificate :**

- Chemical composition
- Mechanical properties: Hardness, tensile strength, elongation ...