NICOR®
Nickel-plated diffusion-annealed steel

Tata Steel’s NICOR® is a nickel-electroplated, diffusion-annealed, cold-rolled steel strip product. Its superb quality helps you deliver superior semi-finished products.

Processing with NICOR® is easy and reliable. It has excellent deep-drawing properties with no risk of surface cracking. The perfect bond between steel and nickel also ensures excellent resistance to corrosion. NICOR® is suitable for a variety of applications.

NICOR® is created by electroplating nickel onto cold-rolled steel which is then diffusion-annealed. Heat treatment ensures an inseparable bond between the nickel layer and steel substrate. Stringent process control ensures homogeneous nickel layers. Well-bonded nickel enables deep-drawing operations without the risk of cracking the nickel surface. It also ensures outstanding corrosion-resistance for extended end-product life.

The consistent quality of NICOR® delivers additional benefits for your end-products and processes. NICOR® surfaces have good resistance to scratches and abrasion. NICOR® is ideal for stamping applications and offers good welding and brazing properties. Tight dimensional tolerances also aid trouble-free processing and help minimize waste.

For added benefits, we can tailor NICOR® products to meet your exact processing and end-product requirements.

Production Process
Main benefits of NICOR® include:

- end-products of consistent and reliable quality
- extended product life
- improved product performance
- trouble-free, repeatable processing
- extended tool life
- minimized yield loss
- control of substrate and base metal properties

Applications

- Automotive components including: Gaskets, fuel line components,
- Electrical components including: Connectors, switchgear, circuit breakers
- Office equipment including: Paper guides
- Decorative household products including: Toasters, bread bins

Surface appearance

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Surface Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bright finish (BF): (Ra ≤ 0.2 µm)</td>
<td>very smooth surface</td>
</tr>
<tr>
<td>Fine stone finish: (Ra ≤ 0.6 µm)</td>
<td>smooth surface</td>
</tr>
<tr>
<td>Rough finish: (Ra, min 0, max. 2, 5 µm)</td>
<td>matt surface (rough - matt finish)</td>
</tr>
<tr>
<td>Satin finish</td>
<td>similar to brush finish</td>
</tr>
</tbody>
</table>

We can also lacquer satin-finished products on request – please consult us.

Delivery conditions

<table>
<thead>
<tr>
<th>Delivery condition</th>
<th>Thickness range (mm)</th>
<th>Plating thickness (µm)</th>
<th>Width range (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, LC, C290, C340, C390, C440, C490, C590, C690 (2T, 3T, 4T, 5T)</td>
<td>0.100 – 1.500</td>
<td>0.008 – 0.060</td>
<td>0.6 – 6.0</td>
</tr>
<tr>
<td>C999 (DC01 only) (1T (full hard))</td>
<td>0.250 – 1.500</td>
<td>0.008 – 0.060</td>
<td>0.6 – 6.0</td>
</tr>
</tbody>
</table>

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