HILAN®
Bright nickel-plated steel

Tata Steel’s HILAN® is a cold-rolled steel strip product electroplated with bright nickel. Bright nickel creates an extra hard and extra bright surface.

Because HILAN® keeps its good looks, it is ideal for decorative products. Its durability also makes it a popular choice for hard-working components. HILAN® can be processed with ease and provides several advantages over stainless steel.

HILAN® is produced to tight dimensional tolerances for uniform products and repeatable processing. Stringent process control ensures an optimised layer of bright nickel - delivering a hard-wearing surface with good resistance to scratches and abrasion. It is available in a choice of surface finishes to suit your applications.

HILAN® is suitable for stamping and deep-drawing operations. It also offers good welding and brazing properties that are superior to those of stainless steel. HILAN® provides a cost-effective alternative to stainless steel. It also provides further scope for cost savings in your processing. It forms a good basis for chrome piece-plating – reducing the need for processing steps such as post-plating and pre-polishing.

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

Production Process

Pickling → Cold Rolling → Annealing → Slitting/Packaging →Plating → Temper Rolling
**HILAN®**

**Bright nickel-plated steel**

**Main benefits of HILAN® include:**
- end-products of consistent and reliable quality
- improved product performance
- trouble-free, repeatable processing
- opportunities to reduce processing steps
- longer tool life
- opportunities for cost savings

**Applications**
- Office equipment including: ring binder components, lever-arch mechanisms
- Decorative household products including: piece-plated chromed parts, vacuum cleaner components

**Surface appearance**

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Surface Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirror finish (MF): (Ra ≤ 0.1 µm)</td>
<td>exceptionally smooth surface</td>
</tr>
<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 0.6 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>LC, C290, C340, C390, C440, C490, C590, C690</td>
<td>2T, 3T, 4T, 5T</td>
<td>0.008 – 0.060</td>
<td>0.5 – 3.0</td>
</tr>
<tr>
<td>C999 (DC01 only)</td>
<td>1T (full hard)</td>
<td>0.250 – 1.500</td>
<td>0.008 – 0.060</td>
</tr>
</tbody>
</table>

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