

Plating

Product range, technical data and delivery conditions

Tata Steel offers a wide variety of cold-rolled and electrolytically-plated cold-rolled strip products. These are available in a range of steel grades, coil weights and surface finish to suit your needs.

This general data sheet introduces our products. It provides an overview of product specifications and details of standard delivery conditions. Detailed information on each of our electroplated steel products can be found on separate data sheets.

Relationship with standards

Tata Steel's cold-rolled and electrolytically-plated cold-rolled strip products comply with the following standards:

- EN 10139: Standard specification for cold-rolled uncoated mild steel narrow strip for cold forming.
- EN 10140: Standard specification for cold-rolled narrow steel strip - tolerances on dimensions and shape.
- ASTM A 109: Standard specification for steel, strip, carbon (0.25 maximum per cent), cold-rolled

Other steel standards may be applicable - please consult us regarding compliance.

Steel grades

Standard steel grades		High-strength steel grades (HSS)	
EU	US	EU	US
DC01	SAE 1006	BX	550
DC03	SAE 1008	DX	Grade 80
DC04	SAE 1010	FX	
DC05			
DC06			

Surface finishes

- HIBRITE® mirror finish (HB MF)
- HIBRITE® bright finish (HB BF)
- Cold-rolled strip (CRS) smooth to rough finish (KB MA)
- Natural (as plated)
- Planished (brushed)

Surface roughness (Ra)

KR 0 / Appliance Finish	Ra: ≤ 0.10 µm (exceptionally smooth mirror finish)
KR 0.5	Ra: ≤ 0.20 µm (very smooth bright finish)
KR 4 / #2 Finish	Ra: 0.15 - 0.45 µm (smooth finish)
KR 7 / #1 Finish	Ra: 0.6 - 1.8 µm (rough finish)
KR 8 / #1 Finish	Ra: 1.0 - 2.5 µm (rough matt finish)

Our products

- HILUMIN®: electrolytically nickel-plated and diffusion-annealed for battery applications
- NICOR®: electrolytically-plated with dull nickel and diffusion-annealed
- HILAN®: electrolytically-plated with bright nickel
- NiZn-Cote®: electrolytically-plated with a nickel-zinc alloy
- NiZn-Cote® Plus: electrolytically-plated with a nickel-zinc alloy; with added polymer coating
- Copper-plated: electrolytically-plated with copper
- Brass-plated: electrolytically-plated with brass
- HIBRITE®: cold-rolled steel with a mirror finish or bright finish
- Cold-rolled steel: steel strip products supplied with a choice of surface appearance

Other product options

We can produce other electroplated steel strip products to meet your requirements. These include:

- Aluminium + nickel: electrolytically-plated with dull or bright nickel
- Stainless steel + nickel: electrolytically-plated with dull or bright nickel

Please consult us about other product options.

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Coil weight

Strip thickness mm / inch	max coil weight EU / US
0,100 – 1,500 / 0.008" – 0.06"	10kg/mm coil width (10 KIM) / 700 PIW

Example:

A strip with a width of 500 mm can have a max weight of 5000 kg.

(Max 10 kg/mm coil width: 10 kg * 500 mm (strip-width)
= 5000 kg max coil weight)

Coil edge finishes

Natural edges (#2)	strip edges have a mill edge (un-slit edges)
Slit edges (#3)	strip edges have been slit (reduces maximum width by a total of 10mm)
Sheets cut to length	strip cut to a specific length (sheets)
Straight wound coils	standard
Traverse wound coils (a spool)	upon request – please consult us

Packaging

Skid	Type (2 & 3 runners)	Dimensions mm / inch
Pallet (Eye to sky) Coil Pallet (Eye to the side)	2 - way	Minimum 660 x 660 / 26" x 26"
	4 - way	Maximum 1321 x 1321 / 52" x 52"
		Parameters selected to protect coils from overhanging skids
Coil No Pallet (Eye to side)		Shrouded / Stretch-wrapped

Other packaging options are available – please consult us.

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