

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.

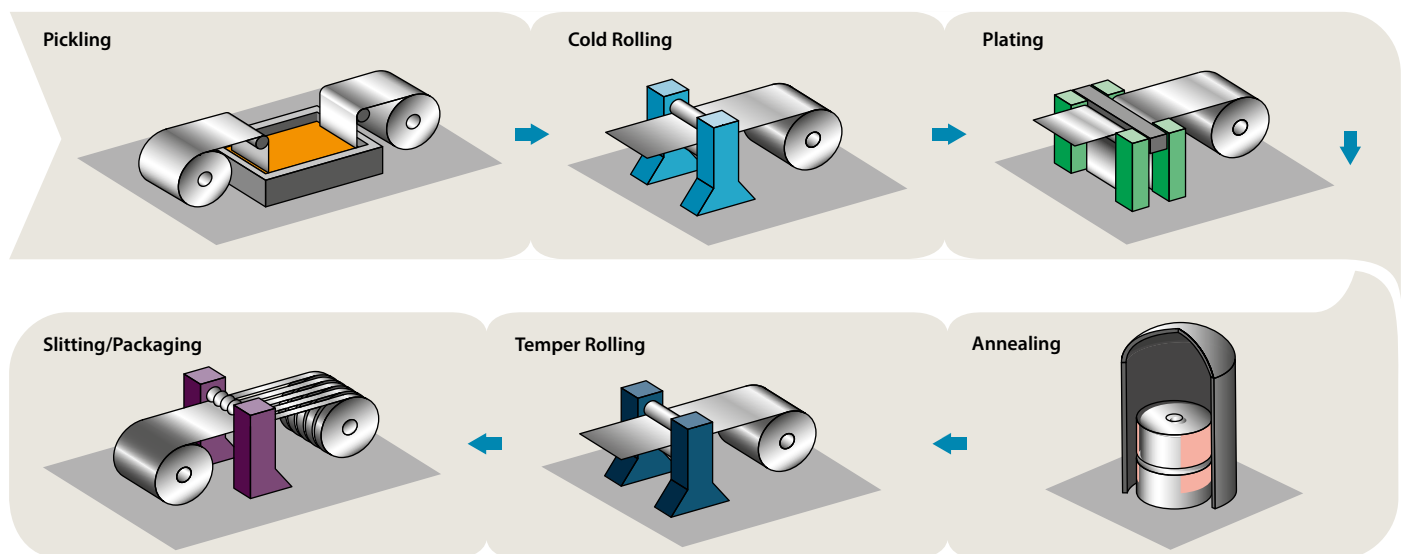


NICOR® is created by electroplating nickel onto cold-rolled steel which is then diffusion-annealed. Heat treatment ensures an inseparable bond between the nickel layer and steel substrate. Stringent process control ensures homogeneous nickel layers. Well-bonded nickel enables deep-drawing operations 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



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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

Bright finish (BF): (Ra ≤ 0, 2 µm)	very smooth surface
Fine stone finish: (Ra ≤ 0, 6 µm)	smooth surface
Rough finish: (Ra. min 0, 6 max. 2, 5 µm)	matt surface (rough - matt finish)
Satin finish	similar to brush finish

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



Delivery conditions

Delivery condition		Thickness range		Plating thickness		Width range	
		mm	inch	µm	µ"	mm	inch
A, LC, C290, C340, C390, C440, C490, C590, C690	2T, 3T, 4T, 5T	0.100 – 1.500	0.008 – 0.060	0,6 – 6,0	24 – 240	3 – 724	0.10 – 28.5
C999 (DC01 only)	1T (full hard)	0.250 – 1.500	0.008 – 0.060	0,6 – 6,0	24 – 240	3 – 724	0.10 – 28.5

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