CONSOL STAR RIGHT NICKEL SERIES

SUPER-STAR STAR **SOLO-STAR ROTO-STAR** DELTA-STAR

STAR-REVOLUTION



- **★ Break through advanced Bright Nickel technology.**
- **★ Quick, Bright, Ductile, Leveled deposits.**
- ★ High molecular, Long chain, Low TOC stable chemistry.
- **★ Low organic degradation products in solution.**
- * White active receptive Nickel deposits. No Yellowing.
- **★ Low porosity. High corrosion resistance.**
- **★ Dedicated processes specific to Rack and**
- **★ Barrel applications.**
- ★ Economical in use.









Consolidated etal Finishing

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FEATURES AND BENEFITS



(HIGH SPEED QUICK LEVELLING RACK NICKEL PLATING SYSTEM)

- Consol Star Bright Nickel, a Fifth Generation Organic System makes it possible to obtain superbly levelled, extremely ductile, bright reflective Nickel finishes over a wide variety of base metals such as Steel, Brass, Copper, Zincated aluminum. ABS plastics and white metal.
- Applications range from Automotive two and four wheeler, hardware, jewelry, tubular and hollow articles, giftware & over a wide range of conventional and specialized applications.
- ♦ **Consol Star** is the ideal Topcoat of Nickel in a Duplex or Tri-Nickel application with very low porosity making for superior corrosion resistance.
- Nickel deposits are active and readily accept a wide variety of plated deposits such as Chrome, Gold, Silver, Rhodium, Black nickel, Pearl Nickel and alloy coats.

SOLUTION MAKE-UP COMPOSITION:

	RANGE	OPTIMUM
Consol Star Bright Nickel Salt	350 – 400 g/l	375 g/l
Consol Star Composite – 1	7.5 – 12.0 cc/l	10.0 cc/l

OPERATING CONDITIONS:

	RANGE	OPTIMUM
Nickel as Metal	56 – 65 g/l	59 g/l
Boric Acid	40 – 45 g/l	42 g/l
Nickel Chloride	55 – 70 g/l	60 g/l
рН	4.2 – 5.0	4.6
Temperature	49 – 60°C	57°C
Cathode Current Density	1.0 - 8.0 A/dm ²	4.0 A/dm ²
Anode Current Density	1.0 – 4.0 A/dm ²	2.0 A/dm ²
Bath Voltage	3.5 – 6.0 V	5.0 V
Agitation	Cathode Rod Movement / Air	
Filtration	Continuous	

REPLENISHMENT:

Consol Star Carrier – 2	75 – 125 cc / KAH	
Consol Star Brightener – 3	100 – 150 cc / KAH	
Consol Star Bright Nickel Salt	10 g/l = Ni Metal: 1.62 g/l ; Boric Acid: 1.25 g/l ;	
	Chloride: 0.75 g/l	

Consol Star Composite – 1 is used to make up new solutions. Slide conversion of operating solutions requires 1-3 cc/lit. After oxidation or Carbon Purification Treatment 1-3 cc/lit is added. **Not used for regular addition.**

Attention: This sheet is only meant to provide Features and Benefits of the process mentioned. For detailed Usage, Please refer the product Technical Data Sheet. For Safety, handling and Chemical information please refer the Safety Data Sheet. These can be provided through a *Consolidated Metal Finishing Pvt. Ltd.* representatives or requesting us for the same by email.