



BRIGHT NICKEL PLATING

Bright Nickel Plating system of RRR is suitable for white and bright nickel plating. The deposits are very ductile, even when the bath becomes old, Chrome plating on the nickel can be done easily, because the deposit of nickel is very active. The throwing power of the system is excellent. There are few decomposition products formed, therefore carbon treatment is needed less frequently.

BATH COMPOSITION

Nickel sulphate	220g/L
Nickel chloride	50 g/L
Boric acid	35 g/L
Nickel Additive	7 mL/L
Nickel Brightener	0.7 mL/L

BATH MAINTENANCE

The consumption of Nickel Additive is 200 to 250 mL per 1000 A.h.

The consumption of Nickel Brightener is 125 to 150 mL per 1000 A.h.

WORKING PARAMETERS

Temperature : 50-65° C.

pH: 4.2 to 4.8

Current density: 0.2 to 10 A/dm²

Voltage: 1-8V; 8-20V for barrel plating

Electrolytic grade nickel and anode bags are necessary.

Filtration: 1 to 2 times per hour, continuously

Agitation of components: Air agitation with oil-free and dust-free air or mechanical agitation.

ANALYSIS VALUES

Nickel, 55 - 65g/L

Chloride, 40 - 60g/L

Boric Acid, 35 - 45g/L

If excess of Additive or Brightener is added, milky deposits are obtained in high current density areas. This can be overcome by reducing the pH for some time and stopping the addition of brightener and additive for some time. The throwing power and the ductility are not influenced.

Low concentration of brightener is indicated by poor leveling.

Full details about bath preparation, analytical methods, effluent treatment method and trouble-shooting are available on request.

Warranty: The above information has been given in good faith and based on our knowledge, information and experience. RRR has no control over the goods once it leaves our premises. All chemicals, including those which are not classified as hazardous, must be treated with proper care and all necessary precautions for handling and disposing of chemicals must be followed. No liability arises out of handling or use.

RANE RAO RESHAMIA LABORATORIES PVT. LTD.

Plot 80, Sector 23, CIDCO Industrial Area

Turbhe Naka, Navi Mumbai – 400 705 INDIA

Tel. +91 22 2768 3175 & 2768 4646

Fax +91 22 2783 4814

rrrlabs@rrrlabs.com; www.rrrlabs.com

An ISO 9001:2008 certified company