



SPECIAL BARREL NICKEL BRIGHTENER

INTRODUCTION:

The standard Nickel electroplating bath (Watt's electrolyte) contains around 50 g/L of nickel metal and is a well established process for nickel plating. However, when this bath is used for barrel plating, the drag out losses are quite significant. This is particularly so when the barrel components are hollow in nature. For this reason, low nickel metal baths are highly desired for barrel plating. Special Barrel Nickel Brightener has been specifically developed to work at low nickel metal concentrations.

BATH PARAMETERS:

Nickel sulphate $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$	80 – 100 g/L
Boric acid	35 g/L
Nickel chloride	50 g/L
pH	4.5 – 5.2
Nickel additive	7 – 8 mL/L
Special Barrel Nickel Brightener	1.2 – 1.6 mL/L

The bath operating conditions are similar to that of bright nickel plating.

The consumption of **Special Barrel Nickel Brightener** is in the range of 225 – 250 mL / 1000 A.h. The consumption of nickel additive is in the range of 125 – 150mL / 1000 A.h.

The plating equipment and accessories are similar to those for bright nickel plating baths.

The methods of analysis are similar for those for barrel nickel plating. For methods of analysis, please contact our laboratory.

EFFLUENT TREATMENT:

The low metal barrel nickel plating baths are acidic in nature. Their rinse waters must be neutralized to permissible pH values before discharge. The heavy metal

must be precipitated at alkaline pH and the filtrate must be brought to the desired pH value.

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

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