ZINC BRITE CZ-1520

ZINC BRITE CZ-1520 is a high performance brightener system for cyanide zinc plating baths. The system produces brilliant bright deposits for both barrel and rack plating operations.

ZINC BRITE CZ-1520 is designed to produce zinc deposits with chrome like brilliance over a wide range of cyanide concentrations and cyanide to zinc metal ratios. The system is most economical, versatile and operates over a wide range of current densities. The deposits produced are bright and ductile and accepts all chromate layers.

BATH COMPOSITION OPERATING CONDITIONS:

<table>
<thead>
<tr>
<th>Component</th>
<th>VAT</th>
<th>BARREL</th>
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<tbody>
<tr>
<td>ZINC SALT 90</td>
<td>200 g/ltr</td>
<td>20 – 4.0 A/dm²</td>
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<tr>
<td>ZINC BRITE CZ 1520</td>
<td>2 – 4 ml/ltr</td>
<td>0.5 – 1.0 A/dm²</td>
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<tr>
<td>ZINC PURIFIER</td>
<td>4 ml/ltr</td>
<td>10 – 15 volts</td>
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Cathode current density 2.0 – 4.0 A/dm²
Bath Voltage 2.0 – 5.0 volts
Temperature 20 – 30°C
Fume extraction Recommended

SOLUTION PREPARATION

A fresh rubber lined tank is to be leached by filling it with 2% caustic solution for a minimum of 12 hours.

Fill the tank to half its volume with clean water. Add calculated amount of ZINC SALT 90 and stir the solution until the salts are dissolved completely, allow it to cool.
Add 4ml/ltr ZINC PURIFIER, stir and allow it to settle overnight.
The next day filter the solution and make up the level with water. Add ZINC BRITE CZ-1520. Now the solution is ready for plating.

MAINTENANCE

The required concentrations of the bath constituents can be maintained by periodic analysis.

ZINC BRITE CZ-1520 brightener is the only additive required for the make up as well as maintenance. Addition of 100 ml – 150 ml for 1000 Amp.hr. is recommended. However exact amount required depends on solution composition, temperature, operating current density, degree of brilliance required, impurity level in the bath and the type of plating i.e. vat or barrel. Higher additions are required for barrel plating than vat plating.

ZINC PURIFIER is added regularly to remove any metallic impurities. Addition of purifier can be controlled by lead acetate paper. The colour of paper should be brown. White shows lack of purifier, and black shows excess of purifier. Approximately 40 ml. of ZINC PURIFIER is recommended for 100ltr. of the bath.

NOTE:

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