ECOPASS BL - 1500

TRIVALENT PASSIVATION FOR ZINC AND ZINC ALLOYS

ECOPASS BL – 1500 is a uniquely formulated trivalent chromium based passivation for zinc and zinc alloys. The film has extraordinary corrosion protection. The passivation layer produced is clear blue. The bath has good stability and produces repeatable uniform finish throughout the bath life.

OPERATING CONDITIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Condition</th>
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<tbody>
<tr>
<td>ECOPASS BL-1500</td>
<td>80 - 100 ml/ltr</td>
</tr>
<tr>
<td>Temperature</td>
<td>60 – 70°C</td>
</tr>
<tr>
<td>pH</td>
<td>2 – 2.4</td>
</tr>
<tr>
<td>Time</td>
<td>15- 20 sec.</td>
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<tr>
<td>Agitation</td>
<td>Rack or mild air agitation</td>
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</table>

BATH PREPARATION:

Fill the tank 2/3 full of water and add the required quantity of ECOPASS BL-1500 and stir to ensure a thorough mixing. Heat the bath to the operating temperature. Bath is now ready for use.

OPERATION:

Zinc plated components are thoroughly rinsed prior to passivating in ECOPASS BL-1500 bath. A nitric acid pre dip of 0.5% V/V is recommended to maintain the pH of the passivating bath. The component are rinsed thoroughly after passivation and dried. Faster drying can be achieved by giving a final hot rinse. Any component falling in the passivating bath should be removed immediately.

CONTROL:

The bath can be maintained by regular addition of ECOPASS BL-1500. The consumption will depend on the drag out and number of components processed. For each liter of dragged out solution 120ml/ltr of ECOPASS BL-1500 can be added.

The pH is to be maintained between 2 – 2.2 Values higher or lower will affect colour, luster and corrosion resistance. Visual observation is also helpful. The pH can be lowered by adding Nitric and can be increased by adding sodium hydroxide.

STORAGE:

Store in cool, dry place. If crystalline deposit or precipitate does occur, warm water should be added to the drum and mixed well. Slurry can then be added to chromating solution.

CAUTION:

The ECOPASS BL–1500 concentrates and the operating solution are acidic in nature and these are to be handled with care. Nitric acid can cause severe burns to skin and eyes. Use protective clothing, safety glasses and facemask when using this material. In case of contact flush the affected areas with good quantities of clean cold water.

WASTE TREATMENT:

http://www.rikochemicals.com
ECOPASS BL –1500 has no hexavalent chrome hence a reduction step is not necessary. A chromium hydroxide precipitate will form when the pH is raised to 8 to 9 with lime. Accepted methods for metal hydroxide separation should be used and then the clear liquid is to be discarded.

NOTE

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