ECOPASS TLB - 610

TRIVALENT PASSIVATION FOR ZINC AND ZINC ALLOYS

ECOPASS TLB – 610 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>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOPASS TLB-610</td>
<td>50 ml/l</td>
</tr>
<tr>
<td>Temperature</td>
<td>Room</td>
</tr>
<tr>
<td>pH</td>
<td>1.8 – 2.2</td>
</tr>
<tr>
<td>Time</td>
<td>15-20 sec</td>
</tr>
<tr>
<td>Agitation</td>
<td>Rack or mild air agitation</td>
</tr>
</tbody>
</table>

BATH PREPARATION:

Fill the tank 2/3 full of water and add the required quantity of ECOPASS TLB-610 and stir to ensure a thorough mixing.

OPERATION:

- Zinc plated components are thoroughly rinsed prior to passivating in ECOPASS TLB -610 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 TLB-610. The consumption will depend on the drag out and number of components processed. For each liter of dragged out solution 50 ml/ltr of ECOPASS TLB-610 can be added.

The pH is to be maintained between 1.8 – 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 TLB –610 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:

ECOPASS TLB –610 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

The data set forth in this bulletin is believed by RIKO CHEMICALS PVT LTD, to be true, accurate and complete, but is not guaranteed. Our sole warranty is as in standard Terms and Conditions of sale. We cannot warrant that our customers will achieve the same result from any bulletin because we do not have control over customer use nor can we assume any responsibility of our product in a manner which infringes the patents of third parties.