ECOPASS IR – 900

TRIVALENT IRIDESCENT PASSIVATION FOR ZINC AND ZINC ALLOYS

ECOPASS IR – 900 is trivalent chrome based iridescent passivation for zinc and zinc alloys. The Passivation film produced is slightly iridescent yellow layer having good corrosion resistance, withstanding over 100 hrs. neutral salt spray for white rust. The steady state chemistry assures repeatable and uniform yellowish iridescent coatings through out the bath life. The process may be used for both alkaline and alkaline zinc iron deposits. The process may be used either by barrel or rack application.

OPERATING CONDITIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>ECOPASS IR - 900</td>
<td>50 ml/ltr</td>
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<tr>
<td>Temperature</td>
<td>Room</td>
</tr>
<tr>
<td>pH</td>
<td>2.0 – 2.4</td>
</tr>
<tr>
<td>Time</td>
<td>60- 90 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 2/3rd full with fresh water and add the required quantity of ECOPASS IR – 900. Make up the level with water and stir to ensure a thorough mixing. Check the pH and if necessary adjust the pH to the required value using either nitric acid or caustic lye.

OPERATION :

Zinc plated components are thoroughly rinsed prior to passivating in ECOPASS IR - 900. 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 IR - 900. The consumption will depend on the drag out and number of component processed. For each liter of draged out solution 50 ml/ltr of ECOPASS IR - 900 can be added. The pH is to be maintained between 2.0 –2.4. The pH can be lowered by adding Nitric acid and can be increased by adding sodium hydroxide.

STORAGE :

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

CAUTION :

The ECOPASS IR –900 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 IR –900 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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