

# TECHNICAL DATA SHEET

## **ZN TRIKOTE GL- 350**

ZN TRIKOTE GL- 350 is a room temperature trivalent chromate coating that produces iridescent yellow- green colour finish on zinc and zinc alloy plated surface.

This system gives **excellent** corrosion resistance(100-150 hours) neutral salt spray. It has high stability after stress relief backing and does not adversely effect corrosion resistance.

The coating so obtained is in compliance with **ELV / RoHS** directives.

### **OPERATING CONDITION:**

ZN TRIKOTE GL- 350	100 – 140 ml/l
pH	1.8 – 2.2
Time	30 – 90 sec.
Temperature	35 - 60°C
Agitation	air or mechanical

### **BATH PREPARATION:**

- Fill the tank with 2/3 rd of water.
- Add required quantity of ZN TRIKOTE GL- 350.
- Make up the operating level with water.
- Check pH.
- Adjust with Nitric acid (10%) to lower pH and sodium hydroxide(10%) to raise pH.

### **OPERATION:**

- Zinc plate
- Water rinse
- Water rinse

- 0.5% nitric acid dip.
- Water rinse.
- ZN TRIKOTE GL- 350 dip.
- Water rinse.
- Hot air dry.
- Sealing.

#### **ANALYSIS:**

- Pipette 10 ml of passivating bath solution in 250 ml Erlenmeyer flask.
- Add 100 ml DM water and raise pH to 10 with dilute caustic soda.  
(.observe sudden change in colour.)
- Add 5 - 7 ml of hydrogen peroxide(30%).
- Boil the solution for 15-20 minutes till the effervations of hydrogen peroxide boils away.
- Cool to room temperature and acidify with 50% hydrochloric acid to sample orange to red colour.
- Add 1 - 2 gm potassium iodide and immediately titrate with 0.1N sodium thiosulphate solution to straw yellow colour.
- Add starch indicator and continue further titration till blue colour disappears.

#### **MAINTENANCE:**

Bath can be maintained by regular addition of ZN TRIKOTE BL- 350.

#### **CALCULATION:**

Consumption in ml    x    1.085    =    % ZN TRIKOTE BL- 350.

#### **CAUTION:**

ZN TRIKOTE GL- 350 solutions is acidic in nature, in case of splash to the eyes or contact with the skin, flush it with plenty of cold water. Use protective clothing, safety glasses and face mask while handling.

**DISPOSAL:**

Local agencies should be consulted for regulations concerning disposal. Solutions should be neutralized prior to disposal in sewage system.

**DISCLAIMER:**

The data forth in this Bulletin is delivered by **SHARMA CHEMINDUS PVT LTD.** to be true, accurate and complete but is not guaranteed. Our sole warranty is as stated in our standard Terms and Conditions of sale. We cannot warrant that our customers will achieve the same results from any bulletin because we do not have control either over the condition of use; nor we assume any of our products in a manner which infringes the patents of third parties.