

Technical Data Sheet

Bright Blue Passivation EB-414 (TRIVALENT)

Bright blue Passivation EB-414 is a trivalent passivation formulated for cyanide zinc alkaline zinc, chloride zinc and sulfate zinc bath. A trivalent passivation gives better corrosion resistance as compare to conventional hexavalent salts. Corrosion resistance can be increase up to 72 hours.

Make-Up Method:-

- Firstly clean tank thoroughly (PP, PVC Tank Recommended)
- Add required quantity of EB-414
- Maintain Operating level of tank with distilled water.
- Check and adjust pH with nitric acid. To lower pH add sodium hydroxide to raise pH

Operating Parameters:-

- Temperature:- Ambient Temperature
- Concentration:- 15-25 ml/litter (20ml optimum)
- Residence: Time:- 10-15 second`s
- pH:- 2.1~2.4

Process:-

- Zinc Plating (10~12 micron recommended)
- Water rinse
- Water rinse
- Nitric Acid 67% (0.3~0.5%)
- Water rinse
- Trivalent Blue Passivation EB-414
- Water rinse
- Water rinse
- Hot Dry (50~60 °c)

Replenishment:-

- Add 1-3 ml /ltr EB-414 to maintain the passivation shade.
- Its consumption is 150ml-300ml / 200kg production

Cautions:

- Must Wear PPE's Rubber Gloves, Long shoes and apron during chemicals mixing.
- Care should be taken while adding nitric acid.

Effluent Treatment:

The Trivalent Blue Passivation EB-414 contains trivalent chrome compound. The pH has to be adjusted to 9.0 with lime and the precipitated heavy metals are to be removed and the clear liquid can be discarded.