

TECHNICAL DATA SHEET

GOLDEN PASSIVATION 105

(YELLOW CHROMATE CONVERSION COATING FOR CHLORIDE ZINC)

Golden Passivation 105 is a liquid concentrate diluted with water to produce a yellow chromate conversion coating on Chloride Zinc and cyanide zinc deposits.

Golden Passivation 105 does not require the use of **Nitric Acid** and the thick chromate layers afford high corrosion resistance. Because of the flexible immersion time a uniform colour can be achieved in production with a high degree of consistency.

OPERATING CONDITIONS:

Golden Passivation 105	50-80 cc/l
Time	As required
Solution Temperature	Room

BATH PREPARATION:

Fill the tank 2/3rd full water and add the calculated amount of Golden Passivation 105 and stir to mix uniformly. Make up the operating level with water and stir to ensure proper mixing.

OPERATION:

Zinc coated components are rinsed thoroughly and immersed in the Golden Passivation 105 bath and is agitated thoroughly to wet the entire surface. A pre dip of 0.2- 0.5% nitric acid is recommended before entering Golden Passivation 105 solution. A higher immersion time results in yellowish brown layer, and visual operation is the best way to decide the immersion time.

After chromating it should be rinsed thoroughly in running water and to be dried below 60°C.

CONTROL:

- Take 20ml Golden Passivation 105 operating solution into 250ml Erlenmeyer Flask.
- Add 100 ml water.
- Add 2 gm of KI crystals, 2 ml of 50% HCL solution.
- Titrate with 0.1N sodium thiosulphate to light straw color.
- Add 2 ml 0.2% starch indicator and continue titrating to blue green end point.
- $(\text{ml of Na}_2\text{S}_2\text{O}_3) \times (\text{normality of Na}_2\text{S}_2\text{O}_3) \times 8.7 = \text{ml/l of Golden Passivation 105.}$

EQUIPMENT:

Tanks made of polypropylene PVC or polyethylene or steel lined with polyethylene, PVC or polypropylene can be used.

CAUTION:

Golden Passivation 105 solutions is oxidizing in nature, in case of splash to the eyes or contact with the skin, flush it with plenty of cold water for minimum of 15 minutes. Contact physician if necessary.

DISPOSAL:

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

DISCLAIMER:

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