

High Corrosion Resistance Trivalent Chromium Blue-White Passivator TCP-970**TCP-970 三价铬蓝白钝化剂****一、Introduction**

1. Excellent anti-corrosion performance. The salt spray resistance of rack plating workpieces can reach 144 hours.
2. The salt spray resistance of barrel plating workpieces is over 72 hours.
3. Easy to control and the working solution features an extra-long service life.
4. Suitable for all types of zinc coatings for both rack plating and barrel plating.
5. The blue-white passivation film presents an attractive and uniform appearance.

二、Bath Make-Up Procedure:

1. Thoroughly clean the plating tank and fill it with two-thirds volume of pure water.
2. Add the calculated dosage of TCP-970 passivator, then top up with pure water to the standard working volume and stir evenly.
3. Check the solution temperature. The operating range is 18-28 ° C with the optimum temperature at 25 ° C. The solution is ready for use.

三、Operating Parameters:

Plating Process	Concentration	Temperature (° C)	Time (s)	pH Value	Agitation
Cyanide Zinc Plating	2-4%	18-28 (Opt.: 25)	40-70 (Opt.: 50)	2.2-2.8 (Opt.: 2.5)	Uniform Air Agitation
Alkaline Non-Cyanide Zinc Plating	2-4%	18-28 (Opt.: 25)	40-60 (Opt.: 45)	2.2-2.8 (Opt.: 2.5)	Uniform Air Agitation
Chloride Zinc Plating	2-4%	18-28 (Opt.: 25)	40-65 (Opt.: 50)	2.2-2.8 (Opt.: 2.5)	Uniform Air Agitation

四、Precautions

1. Adjust the pH value to **2.5** using dilute nitric acid. The pH control is critical for performance.
2. After passivation, rinse the workpieces in hot water, blow them dry, then bake at 60-80° C for 10-20 minutes.
3. For workpieces requiring high corrosion resistance, the zinc coating thickness must be 7 µm or greater.
4. Perform precise replenishment based on drag-out loss and workload. As a general guideline, add 1 kg of passivation solution per 4000 dm² of treated surface area.
5. Slight sedimentation in the solution is normal and does not affect performance; the product can be used as-is.