

# Super Shield

Super Shield is an alkaline solution designed to improve the corrosion resistance of zinc surfaces after passivation.

## Features & Benefits

Long bath life	Easy maintenance
Greatly improves corrosion resistance	Able to achieve 140 hours salt spray (ASTM B-117) from a yellow passivate coating on zinc
Effective on blue/yellow/olive drab chromate passivate	Can be used in barrel plating lines or racks

## Operating Conditions

### Process Procedure

1. Passivate
2. Rinse
3. Super Shield
4. Drain
5. Hot air drying

Concentration	15% – 25%
Temperature	55°C – 65°C
Duration	40 – 70 sec

## Titration Method

1. Add 50 mL the operating Super Shield bath to a 250 mL Erlenmeyer flask.
2. Add 3 to 5 drops of Bromocresol Purple indicator.
3. Titrate with 0.5M Sulfuric Acid until the solution changes colors from red/violet to yellow.
4. Record mL used.

### Calculation

$$\text{Concentration} = \text{mL } 0.5M \text{ H}_2\text{SO}_4 \times 1.1$$



**Cleaning**  
the Hard to Clean



**Finishing**  
the Hard to Finish



**Treating**  
the Hard to Treat

Note: If the bath contains excessive amounts of hexavalent chrome, the solution will become hazy and will need to be replaced with fresh Super Shield solution.

## Waste Disposal

Assure conformity with applicable governmental regulations.

## Caution

Before using this material, read and understand the OSHA Safety Data Sheet for Super Shield. Specific instructions and precautions should be followed to assure correct use and personal safety.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

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## Our people. Your problem solvers.

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