



# **BRITEGUARD™**

## **RP-90™**

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- **Extends salt spray up to 300 plus hours to red rust.**
- **Heals small defects in chromate coating.**
- **Non flammable.**
- **Use on any chromated surface.**
- **Corrosion inhibitor sealer and hardener.**
- **Use as the final rinse.**
- **Economical to use.**

### **POST TREATMENT FOR CHROMATED SURFACES**

**RP-90** is a highly concentrated, water-soluble material, designed to be used in the final rinse, which will provide a clear, transparent, corrosion resistant film on chromated zinc, cad and mechanical plated surfaces as well as aluminum surfaces. **RP-90** offers salt spray protection for up to 300-500 hours to red rust over yellow and black chromate.

**RP-90** chemically bonds with the chromate film to seal and harden chromate films as well as increase their adhesion to zinc surfaces. It will reduce chromate leaching and fingerprints while dramatically improve corrosion resistance. It may be applied over blue-bright (clear), yellow, olive drab or black chromate conversion coatings.

**RP-90** is non-flammable and contains no nitrates, carcinogens chelators, complexors or anything which will be a detriment to waste streams, the part itself and most importantly, to plant personnel.

**RP-90** meets Chrysler PS-8814, Ford ESE-M21-P17-A2 and GM 4345 M8D. Government specs QQZ 325 Type II, Class II and QQP 416, Type II Class A. ASTM specs B633, Type III, Zn/Fe 12, SC3, B 695, Type II, A 165 Type NS, B 696 Type II.

# OPERATING DATA

<b>RP-90</b>	<b>1-5% by vol.</b>
Temperature	140-160°F (60-70° C)
Time	45-90 sec.
pH	11-11.5
Agitation	Mild air
Equipment	Steel tanks and heaters.

To process parts, simply immerse for the time required. **Do not rinse.**

## OPERATING NOTES

- Maximum corrosion protection is obtained if the finish is dried for 3-5 minutes with forced air or heated air no higher than 140° F or centrifuged until the moisture is removed.
- If re-working of the part is required, the coating must be stripped back to base metal.
- If used on black chromate, post treatment temperature should not exceed 120°F.
- DI water is recommended for make-up.
- The lead acetate spot method is a good test to determine final film thickness on zinc surfaces. No black spot should be detected for two to three minutes on the surface. Further, parts should show no visible white salts when baked for one hour at 250°F.

## SOLUTION CONTROL

The amount of **RP-90** gradually decreases during operation due to parts absorbing the sealer and drag-out. Maintenance additions in increments equal to 5-20% of the original make-up amount is suggested. If pH drops below 11.0, add **BriteGuard RP-90** until pH is restored. Experience will determine the proper maintenance additions required for each particular installation.

### Analytical

1. 50 ml sample into 250 ml flask.
2. 3 drops phenolphthalein indicator.
3. Titrate with 1.0N Sulfuric Acid to clear endpoint.

**Calculation:** Mls of 1.0N Sulfuric Acid x 0.58 = % by volume **BriteGuard RP-90**.

## STORAGE/HANDLING

Store in a dry area. It is stable upon standing. Avoid eye and skin contact. Wear proper protective clothing, face shield, rubber boots and gloves. **Refer to the Material Safety Data Sheet for more complete information before using this product.**

## WARRANTY

The information presented herein, while not guaranteed, is to the best of our knowledge, true and accurate. No warranty or guaranteed expressed or implied is made regarding the performance of any products, since the manner of use is beyond our control. No suggestion for product use nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and we assume no responsibility or liability for operations which do infringe any such patents. This includes confidential and proprietary information of **A BRITE** and is furnished to you for your use solely on products or processes supplied to you by us.