



PRODUCT INFORMATION

MARTRON INC.® P O BOX 309, MONROE, NC 28111 PH: (704) 289-1934 FAX: (704) 283-7400

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EMERGENCY - MARTRON 704-289-1934
CHEMTREC 800-424-9300

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MARTRON MTC POST DIP-1

OPERATING INFORMATION FOR USE AFTER MTC TRIVALENT CHROMIUM PLATING SOLUTIONS

INTRODUCTION

Martron MTC Post Dip-1 was developed to cope with minor rusting of thin or unplated areas on ferrous substrates following nickel and trivalent chromium plating. With proper use, an almost invisible film is imparted to the surface and is particularly useful to minimize and/or eliminate rusting during storage of the plated part in most environments encountered. **Martron MTC Post Dip-1** should not be used as a stand-alone corrosion protection scheme.

APPLICATION

Martron MTC Post Dip-1 is a simple immersion process used following the rinsing operations subsequent to plating with trivalent chromium. The plated article must be thoroughly rinsed before application. Following the **Martron MTC Post Dip-1**, the plated article is again rinsed and then followed by a final rinse in the Martron MTC Post Dip-2 solution.

SOLUTION MAKE-UP (Martron MTC Post Dip-1)

COMPOSITION

MATERIAL

Phosphoric acid (80%/wt, specific gravity 1.69)

Martron MTC Post-Dip-1

Water (de-ionized preferred)

CONCENTRATION

2 %/vol

3 %/vol

balance

OPERATING CONDITIONS

Time

30 seconds minimum

Temperature

Ambient to 100°F (38°C)

MAINTENANCE

Pipet a 1.00 mL sample into a 250 mL Erlenmeyer flask, add about 50 mL of DI or distilled water, add 5 drops of methyl orange indicator and titrate with 0.100 N NaOH solution from a red to a yellow end point.

Calculate:

$$\%/\text{vol Phosphoric Acid} = \text{mL } 0.1\text{N NaOH} \times 0.75$$

For every gallon of phosphoric acid added back to maintain the concentration, add 1.5 gallons **Martron MTC Post Dip-1**.

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