



Chemical Methods, Inc.

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TECHNICAL DATA SHEET

CM-903 **IMMERSION IRON PHOSPHATE**

PRODUCT DESCRIPTION

CM-903 is a liquid iron phosphate with good detergency capable of depositing a fine grain iron phosphate coating on steel, cast iron, wrought iron, carbon steel, and some zinc and aluminum. **CM-903** simultaneously cleans and produces an iron phosphate base for improved paint film adhesion. **CM-903** substantially improves the ability of paint to withstand weathering, rusting, and localized corrosion if injured. It is designed specifically for use in immersion tanks and finds application in steam cleaning or spray wand applications. **CM-903** will not attack mild steel tanks or piping.

FEATURES

- Convenient liquid form.
- No objectionable odors.
- Excellent base for paint films.
- Low bath maintenance.

APPLICATION

Soak Application - Use **CM-903** at 3% to 5% by volume with agitation and at an operating temperature of 110-170°F for 2-5 minutes cleaning time. pH should be maintained between 4.0 and 5.0 with 4.5 targeted. Soak application should be followed by a room temperature over-flow rinse and then by a seal rinse for maximum corrosion resistance.

Spray Wand (Steam) Application - Use **CM-903** for cleaning and phosphating parts too large to process otherwise. Use diluted to 1½ - 3% by volume of water. The pH of the solution at the nozzle should be between 4.0 and 5.0 - it is not normally adjusted for this application.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Yellow Liquid
Specific Gravity:	1.13
Weight per Gallon:	9.4 lbs.

TITRATION CONTROL - Total Acid Dropper Method

Measure 1 ml tank sample into empty test tube.

Add 2 drops of phenolphthalein indicator solution.

Titrate with 0.1 N NaOH dispensed from dropper bottle. Swirl test tube frequently during additions.

Titrate until color changes from **colorless** to **pink**.

Multiply drops of titrating solution times 0.24 to convert to operating concentration in percent by volume.

SAFETY AND HANDLING

Refer to material safety data sheet for additional information about this product.