



Chemical Methods, Inc.

20338 Progress Drive
Cleveland, Ohio 44149
216/476-8400
FAX: 216-476-1231
www.chemicalmethods.com

TECHNICAL DATA SHEET

CM-963 NON-PHOSPHATE CONVERSION COATING

PRODUCT DESCRIPTION

CM-963 is a non-detergent liquid product capable of imparting phosphate-free conversion coating to metal surfaces. Coating improves paint adhesion and affords under-film corrosion protection improving humidity resistance and salt fog performance of subsequently coated articles. **CM-963** is capable of producing inorganic micro-coatings on metal surfaces such as steel, aluminum, and zinc alloys. Chromium-free **CM-963** is used to replace iron phosphate products in paint lines, or as a DIP product after alkaline cleaning stages. Low foaming **CM-963** can be used in spray or soak operations. **CM-963** is suggested as a replacement for iron phosphates or can be applied over phosphate coatings to act as a seal rinse to improve paint adhesion and corrosion resistance.

PRODUCT BENEFITS

- Promotes Paint Adhesion
- Impedes Flash Rusting
- Improves Corrosion Resistance
- Low Foam
- Non-Chromated
- Multi-Metal Compatible

USE DIRECTIONS

Conventional 5-stage Washer

CM-963 is used at a level of 2% to 4% by volume to impart non-phosphate conversion coatings to ferrous and non-ferrous metals in five-stage washer operations. Concentration is dependent on stage duration and alloy composition.

Manual Spray Wand Application

Use **CM-963** diluted to 1% - 2% by volume for spray wand application. Allow the metal to be completely wetted with product for 30 to 90 seconds to adequately build coating. Apply in a manner as to ensure all surfaces are contacted with product. Final rinse is optional, especially if DI/RO water is used for dilution.

Phosphate Seal Rinse

Use **CM-963** at concentration of 1.0% (vol/vol) with water when used as a seal rinse for traditional iron phosphate operations. DI/RO water is recommended for dilution, and the **CM-963** rinse tank should be dumped weekly.

SAFETY AND HANDLING

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