Product Bulletin
Product Name: Mi-Phos 26
Product Code: 2201002
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Mi-Phos™ 26

Mi-Phos 26 is a cleaner and iron phosphate for steel, aluminum, and zinc.

Features & Benefits

Cleans light soils and phosphates in one step	Process simplification
Paint adhesion promoter	Pre-paint and powder coat

Operating Conditions

Instructions

Mi-Phos 26 is a liquid concentrate which, when mixed at 3% to 5% by volume with water and operated at a temperature of 90°F to 175°F will clean and produce a phosphate coating on steel, zinc and aluminum. The coating provides a tenacious bond and undercoat for paint finishes.

Mi-Phos 26 will normally clean and phosphate in one step. However, for removing extremely heavy oils and greases, pre-cleaning is recommended to extend the production life of the Mi-Phos 26 solution.

Mi-Phos 26 can be applied by immersion, by spray in power washers and steam spray equipment. When portable spray equipment is used for large assemblies, the Mi-Phos 26 concentrate can be fed directly into the siphon line, eliminating any pre-mixing etc. Concentrations of 2% to 6% are recommended for these applications, depending on the steam pressure available and the square footage production requirements.

Equipment

Acid resistant Polypropylene, PVC, plastic coated, rubber lined, or stainless steel baskets, hooks, barrels, or tanks must be used with the Mi-Phos solution.

Chemical Control Procedure

Mi-Phos 26 working solutions are very stable and require a minimum of chemical control.

At the recommended concentration, the working solution should have a pH of approximately 4.l. Steel surfaces should be coated at a pH of 4.0 to 4.5. When processing mixtures of steel, aluminum and zinc the pH should be maintained at 4.5 to 4.8.

For a 100-gallon solution, a one-pint addition of the Mi-Phos 26 concentrate will lower the pH by 0.1 pH unit.

Test Kit Method

1. Withdraw 10 mL of Mi-Phos 26 production solution using the 10 mL syringe and place into mixing bottle. Add 25 mL water.
2. Add 8 to 10 drops Phenolphthalein indicator to the sample solution in the beaker.
3. Using the dropping bottle containing 1.0 N Sodium Hydroxide, add drops to the sample solution with constant swirling of the solution in the beaker until the solution turns a faint permanent pink color. Count the drops as they are being added.
4. Record the number of drops used.

Calculation

Concentration = # Drops 1.0 N NaOH x 0.30

Caution

CONTAINS ACID...MAY BURN SKIN AND EYES...DO NOT TAKE INTERNALLY

Do not get in eyes, on skin or clothing. Wear eye protection (goggles, glasses, or face shield), protective gloves and rubber apron when mixing solutions and while working with the solution.

Avoid contact of Mi-Phos 26 concentrate and solutions with alkaline materials. DO NOT MIX Mi-Phos 26 with any other chemicals or solutions.

In case of accidental contact with skin or eyes, immediately flush freely with water for at least fifteen minutes. Obtain medical attention.

Read and understand OSHA Safety Data Sheet and drum warning labels prior to working with or handling this product.

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