

JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

MIL-C-10578D Type 5

Rust Remover / Metal Treatment

General Description

This product, based upon the specification, is approved for use by all Departments and Agencies of the Department of Defense. **MIL-C-10578D Type 5** is a concentrated phosphoric acid corrosion removing and metal conditioning compound which, when diluted with water and applied to metal surfaces, will remove rust from ferrous metal surfaces and provide a slight etching action for ferrous and nonferrous metals to promote the adhesion of paint or corrosion preventives.

Application

Add 1 part of the concentrated material as received to 3 parts of water by volume. Remove heavy rust by wire brush and grease with a grease solvent before applying the compound. After proper dilution, apply by spray, dip, circulation, or flow-brush. Allow the conditioner to remain on the metal surfaces long enough so that the rust is loosened or dissolved and may be removed by rinsing with hot water. When the surface is dry, it may be coated, preserved with a corrosion preventative or put directly into service, as circumstances may indicate.

Physical Properties

| | |
|------------------|---------------------------|
| Color | Clear Water White |
| Odor | Typical Acid |
| Water Solubility | 100% |
| Density | 11.30 – 11.75 lbs./gallon |
| Freeze Point | 28° F |

The estimated rate of metal loss for 24-hour static or spray immersion in **MIL-C-10578D Type 5**, 15% by volume of water, 49°C (120°F), projected for one year, is as follows:

| Metal (Alloy) | mm/yr | in/yr |
|-----------------------|---------|---------|
| Steel (1010) | 2.33 | 0.092 |
| Stainless Steel (316) | 0.1 | 0.004 |
| Stainless Steel (403) | 0.13 | 0.005 |
| Copper | 0.43 | 0.017 |
| Brass | 0.25 | 0.01 |
| Aluminum (3003) | 19.66 | 0.774 |
| Magnesium | Attacks | Attacks |

Availability

MIL-C-10578D Type 5 is available in UN approved 5 gallon pails and 55 gallon drums.

Handling

Observe warning label on containers. Normal precautions for industrial chemicals apply.

This item will be furnished in full compliance with all specification requirements as noted in MIL-C-10578D and will be provided with a test report that will represent the actual attributes of the items furnished. JMN Specialties, Inc. warrants that the product will be in full compliance with all applicable specifications and purchase order requirements.

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