



PROTEC Rust Preventatives

Description

Protec Rust Preventatives are composed of film-forming organic rust-preventative materials in high flash solvent. They are designed to meet the performance requirements of Mil Spec MIL-C-16173.

Protec Rust Preventatives are suitable for both "indoor" and "shedded outdoor" rust and corrosion protection of ferrous and non-ferrous metals.

Protec Rust Preventatives inhibit line contact rust and corrosion stains on highly polished metal surfaces. They can be applied by spray, brush, roller or dip methods and do not require heating. After application, the solvent evaporates leaving a thin, translucent and flexible film, providing protection to both rigid and non-rigid surfaces.

Features/Benefits

- ✓ **Diverse Range of Applications**
Suitable for indoor and shedded outdoor rust and corrosion protection
- ✓ **Easy to Use**
Can be applied by spray, brush, roller or dip methods
Does not require heat
- ✓ **Meets Mil Spec MIL-C-16173**
- ✓ **Versatile**
Suitable for use on both ferrous and non-ferrous metals

Typical Properties

Properties	Protec T	Protec R
Product Number	416	384
Mil Spec Performance	MIL-C-16173 Grade 3	MIL-C-16173 Grade 2
Inside Storage Life	1 year	2 years
Outside Shedded Storage Life	6 months	1 year
Water Displacing	Yes	No
API Gravity @ 60°F, min	43	40
Flash Point, °F, typ	140	140
Viscosity @ 40°C, cSt	1.8	2.5
Film Type	Dry, transparent	Soft, waxy, transparent
Approximate Drying Time	1.5 hours	1.5 hours
Film Thickness, Mils	1	2
Method of Application	Dip, Brush, Spray, Roll	Dip, Brush, Spray, Roll
Application Temperature, °F	35 - 90	35 - 90
Method of Removal	Petroleum Solvent	Petroleum Solvent
Humidity Cabinet ASTM D-1748	50+ Days	45 Days



MIL-C-16173E Specification Summary

This specification covers solvent dispersed corrosion preventive compounds that deposit then, easily removed films after evaporation of solvent.

Grade 1: Hard film

- a) For protection of metals when exposed for extended periods to outdoor weather conditions.
- b) For general purpose preservation, indoor or outdoor, with or without cover, for domestic and overseas shipment where a dry-to-touch film is required.

Grade 2: Soft film

- a) For extended indoor protection of interior or exterior surfaces of machinery, instruments, bearings or materials with or without use of supplementary barrier materials.
- b) For outdoor protection of material for limited periods where metal temperatures do not reach levels that produce prohibitive flow of the corrosion preventative film.

Grade 3: Soft film – water displacing

- a) For use where water or saline solution must be displaced from corrodible surfaces and the corrosion prevented or arrested.
- b) For protection of metallic surfaces of machinery interior instruments or parts under cover for limited periods.
- c) For the protection of critical bare steel or phosphate surfaces for extended periods when packaged with suitable barrier materials.

Grade 4: Soft film – water displacing

- a) For general purpose indoor and limited outdoor preservation of corrodible metals with or without an over wrap and where handling, stacking and counting requires a tack-free coating.
- b) For storage protection of precision parts, machine tools, pistons, valves, and where a transparent coating is required in addition to properties indicated in item (a) above.
- c) Where there is no requirement for miscibility with lubricating oil and where ease of removal with Stoddard's solvent (P-D-680) is important.

Grade 5: Oily film – low pressure steam removable

For use in place of grade 3 corrosion preventive compound where chemical boil-out cannot be used for removal (see grade 3).