VpCl®-322 Oil Concentrate

PRODUCT DESCRIPTION

VpCl®-322 oil-based concentrate adds corrosion protection to lubricating or hydraulic oils. VpCl®-322 provides excellent protection in indoor or open air conditions. First, oil-soluble corrosion inhibitors offer a tenacious film which clings to metal surfaces, giving excellent contact corrosion protection. In addition to this film barrier, VpCl®-322 releases Vapor phase Corrosion Inhibitors (VpCl®) into the air above the oil. These VpCIs attach to metal surfaces for additional corrosion protection.

FEATURES

- Corrosion protection for ferrous and non-ferrous metals
- Does not contain hazardous barium, chromates, nitrites, or phosphate inhibitors
- High flash point
- Low in toxicity and thermally stable, providing long-lasting contact and VpCIs
- Passes through a size 5 micron filter
- Can be used in hydraulic applications
- Provides protection in presence of chlorides
- When added at a concentration level of 5-10% to hydraulic fluids, does not affect pour point and viscosity at low temperatures
- Compatible with most mineral and synthetic oils
- Suitable for both operating and intermittent use conditions

TYPICAL APPLICATIONS

Lubricating and hydraulic oil systems for intermittent operation: Add VpCl®-322 to oil at a ratio of 1 part VpCl®-322 to 9 parts oil for 24 months protection.

Tanks, gearboxes, differentials - stored or shipped dry: Fog cavity interior with VpCl®-322 concentrate using 1 quart (1 liter) per 35 ft³ (1.1 m³) of enclosed space.

METALS PROTECTED

- Carbon Steel
- Copper
- Stainless Steel
- Cadmium
- Galvanized Steel
- Magnesium
- Aluminum
- Silver
- Brass
- Zinc
TYPICAL PROPERTIES

Appearance  Dark amber viscous liquid
Corrosion Resistance  Up to 24 months
Coverage  1260-1370 ft²/gal
          (31-34 m²/l)
Film Thickness  0.5-1 mil (12.5-25 microns)
Film Type  Oily, paraffinic
Flash Point  >212°F (>100°C)
Non-volatile Content  90-99.5%
Removal Method  Petroleum solvents
                Alkaline cleaners
                (VpCI®-410 series)
pH  8.5-10.0 (1% aqueous solution)
Density  7.4-7.6 lb/gal (0.89-0.91 kg/l)
Viscosity at 70°F  225
Pour Point  -13°F (-25°C)

PACKAGING AND STORAGE

VpCI®-322 is packaged in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. The product should be sealed before storage. The shelf life of VpCI®-322 is up to 24 months.