



VpCI® METALWORKING PRODUCTS

VpCI-322 Oil Concentrate



PRODUCT DESCRIPTION

VpCI-322 oil-based concentrate adds corrosion protection to lubricating or hydraulic oils. VpCI-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, VpCI-322 releases vapor phase corrosion inhibitors into the air above the oil. These VpCIs attach to metal surfaces for additional corrosion protection.

FEATURES

- Corrosion protection to 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 vapor phase corrosion inhibitors
- 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 APPLICATION

Lubricating and hydraulic oil systems for intermittent operation:

Add VpCI-322 to oil at a ratio of 1 part VpCI-322 to 9 parts oil for 24 months protection.

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

METALS PROTECTED

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

TYPICAL PROPERTIES

Appearance	Dark amber viscous liquid
Corrosion Resistance	Up to 24 months
Coverage	1260-1370 ft ² /gal (31-34 m ² /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)

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.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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