

VCI OIL

VAPOR PHASE CORROSION INHIBITOR RUST AND CORROSION PREVENTATIVE

▷ PRODUCT DESCRIPTION

VCI OIL is a special rust and corrosion preventative for ferrous metal surfaces in so-called “closed systems” such as engines, transmissions, fuel tanks, hydraulic cylinders, gear housings, and steel drums. The duration of vapor phase protection provided by VCI Oil depends on the ability to prevent the escape of the volatile inhibitors. Where complete sealing of the closed system is achieved, protection of almost infinite duration can be expected. In many cases, long term protection is not a requirement and complete sealing is not necessary as long as reasonable efforts are made to cover openings and block excessive loss of vapor.

▷ FEATURED BENEFITS

VCI Oil is often used to protect sheet metal stampings, spare parts, etc. in sealed packing boxes or polyethylene bags.

VCI Oil is distinguished from conventional preservative oils because it provides both vapor phase and contact protection. VCI Oil equally protects surfaces it coats and other surfaces within the system from which VCI Oil has drained away during prolonged storage or shipment. Volatile corrosion inhibitors diffuse throughout the void in the system and form an invisible protective coating effective even in the presence of moisture vapor or condensation.

VCI Oil also combines excellent lubricating properties with effective contact rust preventing properties. It is particularly effective in protecting machines and ferrous components while in transit or in temporary storage. It is an outstanding water displacing, non-staining rust preventative that will not emulsify, even in the presence of alkali. VCI Oil quickly separates water displaced from metal surfaces after machining operations or alkali cleaning.

APPLICATION



COMPATIBLE METALS

- Cast Iron
- Carbon Steel
- Tool Steel
- Stainless Steel
- Aluminum
- Bronze
- Copper
- Brass





TYPICAL PROPERTIES

Fluid Type	Oil based
Appearance	Clear amber liquid
Odor	Mild amine
Specific Gravity, 60°F (15.6°C)	0.906
Weight, lb/gal., 60°F (15.6°C)	7.5
Flash Point (COC)	335°F (168°C)
Viscosity (40°C)	19.9 cSt
Viscosity (100°C)	4.0 cSt
Viscosity Index	34
Pour Point	-55°F (-48°C)
Humidity Cabinet ASTM D-1748	>60 days

PRODUCT APPLICATION / USAGE

VCI Oil should be sprayed for the most complete coverage where possible.

COMPATIBILITY WITH FUELS AND OILS

VCI Oil is compatible with petrol, diesel, fuel oils, and most lubricants; therefore, there is generally no need to remove VCI Oil when equipment is put into service. This both saves time and allows equipment to be available for instant use, clearly an advantage in the case of such items as military vehicles, rescue equipment, stand-by generators, seasonal equipment (including marine), etc.

Note: Some synthetic oils, especially those based on polyglycols, may not be compatible.

TOXICITY

VCI Oil is basically composed of petroleum distillate residues which are considered non-toxic. The product contains a relatively small amount of a volatile substance which may be irritating to eyes, skin, and mucous membranes. Avoid prolonged exposure to the vapors.

STABILITY

VCI Oil is unaffected by ambient temperatures and remains stable (and effective) indefinitely as long as kept in a vapor-tight container.

EFFECT ON NON-METALLIC MATERIALS (Used full strength)

VCI Oil has little to no effect on rubber, painted surfaces, or plastics. Should a question arise, however, because of the wide variance in composition of these materials, immerse the specimen in a container of VCI Oil and maintain at 130°F (55°C) in an oven for 72 hours. Examine the specimen for visible signs of change.

PRODUCT CODE

8434000000

HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).