



VpCI® METALWORKING PRODUCTS



M-531

Oil Based Corrosion Inhibitor



PRODUCT DESCRIPTION

M-531 is an oil-based package of corrosion inhibitors for petroleum and synthetic lubricants. M-531 provides outstanding vapor and contact corrosion protection with excellent demulsibility.

M-531 is effective in a variety of conventional and synthetic base stocks.

FEATURES

- Excellent vapor and contact corrosion protection
- Excellent non-staining properties
- Can be used in hydraulic applications
- Compatible with most mineral and synthetic oils
- Suitable for preservation and intermittent use conditions
- Resists gelling when contaminated with water

TYPICAL APPLICATION

M-531 can be used in a wide variety of industrial lubricant applications where excellent rust protection, and water resistance are required. In rust preventive applications it is particularly useful for coiled steel or stacked parts due to its outstanding non-staining properties.

Typical dosage ranges between 3% to 5% in the base stock. For larger void space protection, M-531 may be fogged at 1ft. oz./cu ft. (1L/ m³)

SOLUBILITY

Soluble in petroleum and synthetic lubricant base stocks and most common solvents. Insoluble in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives. Please contact Cortec® Technical Service for compatibility test results.

METALS PROTECTED

- Carbon steel
- Stainless steel
- Copper
- Brass
- Aluminum

TYPICAL PROPERTIES

Oil Characteristics		Typical Values
Appearance		Amber Color
Specific Gravity		0.94
Viscosity (ASTM D92)	40°C	148 cSt
	100°C	12.9 cSt
	Index	74
Pour Point (ASTM D6749)		-24°C (-11°F)
Flash Point (ASTM D92)		139°C (282°F)
Fire Point (ASTM D92)		212°C (413°F)
Total Acid Number (ASTM D974)	mg KOH/g	32.7
ISO Particle Count Code		21/20/15
Oil Separability (ASTM D1401) @ 82°C (180°F)	Oil, ml	35
	Water, ml	0
	Emulsion, ml	45
	Time, min	60
Foaming Characteristics (ASTM D892)	Seq. I	25/0/62
	Seq. II	70/0/22
	Seq. III	240/15/600+
Turbine Oil Rust Test (ASTM D665)	Method A	Pass
	Method B	Pass
Copper Corrosion (ASTM D130)		Pass, 1A

Properties listed above are typical of those obtained through normal production and do not constitute a specification. M-531 is generally soluble in hydrocarbon based fluids, however compatibility and solubility should be verified prior to use. Please contact Cortec® Technical Service for more information.

PACKAGING AND STORAGE

M-531 is available in 5 gallon (19 liter) plastic pails and 55 gallon (208 liter) metal drums. Also available in 1 quart (946 ml) bottles.

Store in a cool, less than 115°F (46°C), dry place away from any direct source of heat and moisture. M-531 should be sealed before storage. The shelf life is up to 24 months.

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

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