



CORTEC

CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

M-535/M-535 HV

DESCRIPTION

M-535 is an ashless oil-based corrosion inhibiting formula designed for petroleum and synthetic lubricants in turbine, hydraulic, circulating, compressor, and gear systems during layup or intermittent operation. M-535 protects the system from corrosion caused by condensed moisture and trapped water that could otherwise lead to the failure of equipment components. Corrosion inhibitors in M-535 protect metal surfaces with which they are in direct contact and release molecules in the vapor phase. These Vapor phase Corrosion Inhibitors form a protective molecular layer on metal surfaces above the fluid level, allowing economical and efficient rust protection at a low dose. Also, M-535 provides outstanding non-staining properties and is effective in most hydrocarbon-based lubricants (including naphthenic, paraffinic, PAO, etc.).

Also available in a higher viscosity version, M-535 HV.

PACKAGING & STORAGE

M-535 is available in 5 gallon (19 L) plastic pails and 55 gallon (208 L) metal drums.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

CORROSION INHIBITING ADDITIVES



FEATURES

- Ashless chemistry
- Designed for use with different industrial lubricants
- Generally compatible with PAO and mineral-oil-based lubricants
- Suitable for layup conditions and intermittent operation
- Non-corrosive to copper

BENEFITS

- Provides contact and vapor-phase rust protection
- Cost-effective

TYPICAL PROPERTIES

Appearance	Light Yellow	
Specific Gravity (ASTM D1475)	7.2 lbs/gal (0.86 kg/L)	
Viscosity	M-535	ISO 46
	M-535 HV	ISO 320
Flash Point (ASTM D93)	140 °F (60 °C)	
Total Acid Number (ASTM D974)	50.5 mg KOH/g	
Vapor Phase Corrosion Protection (ASTM D5534 Mod.) ¹	Pass (at 3%)	
Corrosiveness to Copper (ASTM D130)	Does not affect	

¹Tested in some commercial oils. Untreated oils fail this test.

Properties listed above are typical of those obtained through normal production and do not constitute a specification.

APPLICATION

M-535 can be used to prevent rust in lubricating systems for turbines, gearboxes, compressors, hydraulic and circulating systems, and a wide variety of ashless lubricant applications that require intermittent operation during the layup period.

M-535/M-535 HV

Solubility and compatibility: M-535 is soluble in petroleum and synthetic lubricant base stocks and most common solvents. However, verifying its solubility in base oils and its compatibility with other additives is recommended before use. Please contact Cortec® Technical Service with any questions on product compatibility.

Typical dosage rates for preservation are 3-5% by weight in the base oil for wet layup. Product may be fogged into void spaces for dry preservation at a rate of 0.5-1.0 fl oz/ft³ (0.5-1.0 L/m³).

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