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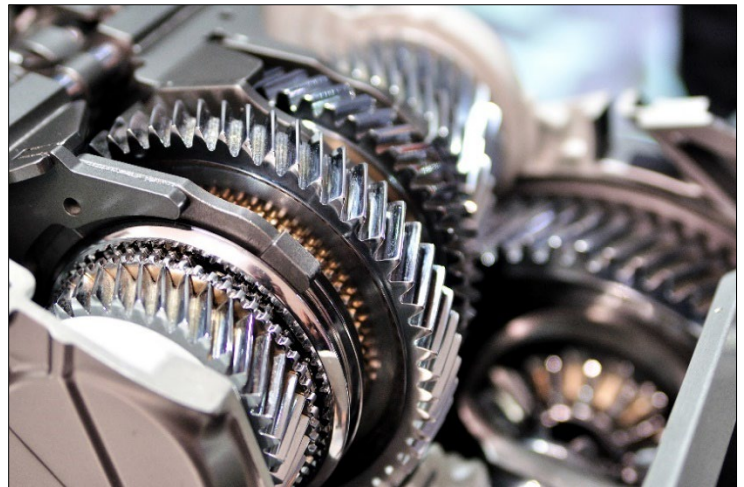


**Attention: Editor**  
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**PRODUCT RELEASE**



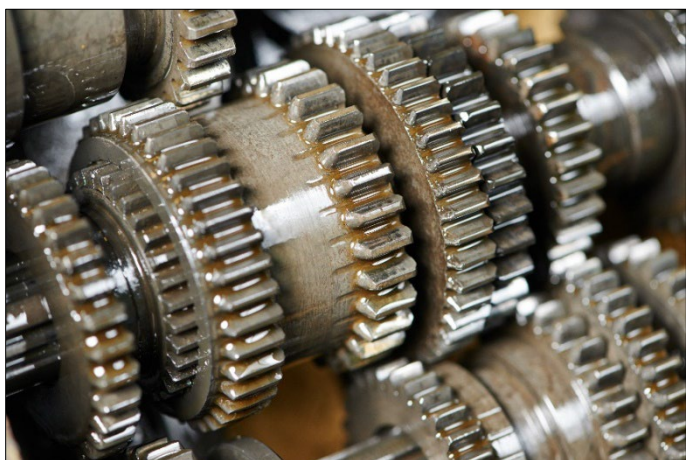
## **Cortec® Releases New Oil Additive to Prevent Rust in Gearboxes**

Cortec® is pleased to introduce [M-535 HV](#), a high viscosity version of its corrosion inhibitor additive for ashless lubricating systems. Prior to this development, asset owners were limited to using M-535 for protection of low viscosity lubrication systems. Now, M-535 HV gives preservation managers the option of applying the same corrosion inhibitor package to an even broader range of critical equipment.



### **Importance of Rust Prevention During Layup**

Layup is a risky time for gearboxes, turbines, compressors, and other equipment with lubricating systems. Without normal operating frequency, equipment is more vulnerable to internal rust formation. Trapped moisture has ample time to condense on metal surfaces and eat away at the system via corrosion, leading to a variety of problems when the equipment starts back up. Worst of all, these complications can include equipment failure and shortened service life, which only add to company losses.



## Benefits of Rust Preventative Oil Additives

Adding a corrosion inhibiting oil additive during layup can go a long way toward protecting the metal parts of a lubricating system. Standard M-535 is one such additive designed for use in ashless applications that use petroleum and synthetic lubricants such as naphthenic, paraffinic, and PAO. It protects in both the contact and vapor phase, meaning corrosion inhibitors are active on surfaces in direct contact with the treated oil and diffuse

throughout the head space above the oil, where condensation can especially be a problem. This multiphase action allows M-535 to be applied either as an oil additive or fogged into a system that has been drained. M-535 protects at a low dose for greater economy. Another advantage is that it can sometimes be left in the system for intermittent operation during the layup period.

## Different Viscosities for Different Applications


M-535 has a base oil viscosity of ISO 46, making it suitable for low viscosity systems such as turbines and compressors. With M-535 HV, the chemistry is identical, but the base oil viscosity is higher, bringing M-535 HV to ISO 320 for compatibility with high viscosity lubricant systems such as those in gearboxes. Since gearboxes are found everywhere in the industrial environment, preservation specialists have many opportunities to use a high viscosity rust preventative additive for temporary shutdown or layup of power plants, offshore platforms, paper manufacturing plants, or industrial facilities.

## Extending Protection to High Viscosity Ashless Systems

M-535 HV opens up new possibilities for corrosion protection of ashless oil systems. Rust prevention can make a critical difference to the success of any industrial layup plan, and M-535 HV makes sure that protection extends to high viscosity ashless lubricating oil systems. Contact Cortec® to learn more about how to prevent rust in gearboxes and other high viscosity lubricant systems:

<https://www.cortecvci.com/contact-us/>

**Keywords:** How to prevent rust in gearbox, high viscosity lubricating oil, new oil additive, Cortec, rust prevention during layup, rust preventative oil additives, rust prevention for turbines and compressors, rust preventative additives for layup, corrosion inhibitor, causes of equipment failure



**CORTEC CORPORATION**  
Innovatively Safe. Proven. Proven. Technology.

**M-535/M-535 HV**

**DESCRIPTION**

M-535 is an ashless oil-soluble rust inhibitor that provides long-term protection for metal parts in contact with oil. It is used in turbines, hydraulic circulating pumps, and other systems during layup or intermittent operation. It also protects the system from corrosion caused by condensation and moisture that may be present in the atmosphere of equipment components. Corrosion inhibitors are used in all types of equipment, including turbines, hydraulic circulating pumps, and other systems during layup or intermittent operation. These vapor phase corrosion inhibitors form a protective molecular layer on metal surfaces above the fluid level, allowing continuous and complete rust protection at a low dose. This is a low dose, typically 0.1% to 0.2% of the total oil volume. It is available in two viscosity grades: M-535 (ISO 46) and M-535 HV (ISO 320).


also available in a high-viscosity version, M-535 HV.

**PACKAGING & STORAGE**

It is available in 5-gallon (19 L) and 20-gallon (75.7 L) drums, and 55-gallon (208 L) totes.

It should be stored in a cool, dry place, away from direct sunlight, and should be kept in its original packaging. Shelf life is 2 years.

**CORROSION INHIBITING ADDITIVES**



**FEATURES**

- Ashless chemistry
- Compatible with ashless industrial lubricants
- Generally compatible with PAO and mineral-based lubricants
- Suitable for long conditions and intermittent operation
- Not corrosive to copper

**BENEFITS**

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

**TYPICAL PROPERTIES**

Appearance	Light Yellow
Specific Gravity (ASTM D1541)	1.02 (20°C/68°F)
Flash Point (ASTM D93)	160°C/320°F
Viscosity	ISO 46
ISO Viscosity Grade	ISO 320
Flash Point (ASTM D93)	160°C/320°F
Total Sulfur (ASTM D524)	500 mg/100 g
Viscosity (ASTM D445)	320 cSt @ 100°C
Compliance to CortecACT™ 3150	Does not affect

Approved for use in all types of ashless oil systems through the normal production process for the intended application.

**APPLICATION**

M-535 can be used to prevent rust in lubricating systems for turbines, compressors, hydraulic and circulating pumps, and other systems. It is applied during layup or intermittent operation during the layup period.

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