Editorial Contact: Cortec® Advertising Agency:

Company Contact: Cortec® Corporation

Technical Contact: Cortec<sup>®</sup> Corporation Shannon Garrow (651) 429-1100 Ext. 1128

Jay Zhang (651) 429-1100 Ext. 1150

John Wulterkens (651) 429-1100 Ext. 1130 sgarrow@cortecvci.com

jzhang@cortecvci.com

jwulterkens@cortecvci.com



Attention: Editor September 20, 2018 PRODUCT RELEASE





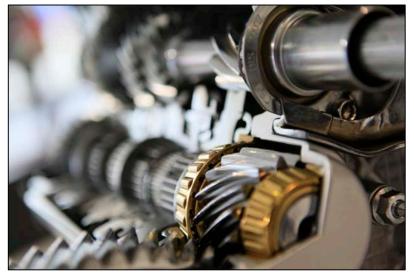


## Cortec® Designs Ashless Vapor phase Corrosion Inhibitor for Turbine Lay-Up

has designed an Cortec® ashless corrosion inhibitor protect lubricating systems in turbines from corrosion during lay-up. Proper preservation of these multi-million dollar assets during lay-up is critical to minimizing downtime and costly repairs in the power generation industry. If not prevented, rust can lead to startup problems and costly time and labor to disassemble, clean, or replace rusted turbine components.



In addition to protecting against rust, it is important that the corrosion inhibitors for these sensitive systems be ashless and compatible with turbine oil to avoid complications at startup.



Cortec's M-531 T is an oil-based package of ashless corrosion inhibitors that can be added to petroleum and synthetic lubricants in turbine systems during layup. Using M-531 T in turbine oil and a wide variety of industrial lubricant applications protects systems (e.g., gear boxes and generators) from the rust that could otherwise lead to equipment failure. M-531 T is also good for applications that

require water resistance.

A unique advantage of M-531 T corrosion inhibitors is that they protect metal surfaces with which they are in direct contact while also releasing 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.

M-531 T provides outstanding non-staining properties and is effective in most hydrocarbon-based lubricants (including naphthenic, paraffinic, PAO, etc.). It is an excellent choice for industrial lubricant applications that require rust protection during lay-up.

Main advantages of M-531 T include the following features:

- Ashless
- Provides contact and vapor phase rust protection
- Designed for use with turbine oils
- Has little-to-no effect on pour point or viscosity at recommended dose
- Generally compatible with PAO and mineral-oil-based lubricants
- Suitable for lay-up conditions
- Economical dosage

When preparing a turbine for a period of inactivity, Cortec® M-531 T should be added to the system oil at 2% by weight for wet lay-up or fogged into the oil system at 1 ounce per cubic foot (1 L/m³) for dry lay-up. The turbine can be returned to operation after cycling flushing oil through the system, draining, and filling with operating oil. M-531 T is soluble in petroleum and synthetic lubricant base stocks and most common solvents. However, as with any additive, verifying its solubility in base oils and its compatibility with other additives is highly recommended before use.

To learn more about M-531 T, please visit:

https://www.cortecvci.com/Publications/PDS/M-531%20T.pdf



Need a High-Resolution Photo? Please Visit: www.cortecadvertising.com

Cortec<sup>®</sup> Corporation is the global leader in innovative, environmentally responsible VpCI<sup>®</sup> and MCI<sup>®</sup> corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec<sup>®</sup> manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

Cortec Website: <a href="http://www.cortecvci.com">http://www.cortecvci.com</a> Phone: 1-800-426-7832 FAX: (651) 429-1122