

# ZERUST® ZerioTec® Fog MV

## Technical Data Sheet

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### Product Description

ZERUST® ZerioTec® FOG-MV is a ready-to-use, water-based Vapor Corrosion Inhibitor (VCI) liquid engineered for fogging and spray applications to protect metals within hermetically sealed or sealable systems.

ZerioTec® FOG-MV provides vapor-delivered corrosion protection for multi-metal assemblies commonly encountered in oil & gas, power generation, mining, and heavy industrial environments. Corrosion-inhibiting molecules disperse throughout enclosed spaces, where they diffuse and adsorb onto metal surfaces, protecting piping, vessels, tanks, turbines, generators, and other static equipment during preservation, layup, or post-hydrostatic testing.

Unlike contact-film rust preventatives, ZerioTec® FOG-MV relies primarily on VCI vapor transport to migrate throughout sealed enclosures, forming a protective molecular adsorption layer on metal surfaces, including hard-to-reach internal areas, voids, and crevices. Effective protection requires the system to be sealed to retain the VCI atmosphere and prevent dilution by air exchange.

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### Typical Applications

- Piping systems and flowlines
- Process vessels and separators
- Storage and transport tanks
- Heat exchangers and coolers
- Turbines, generators, and balance-of-plant equipment
- Compressor skids and multi-metal static equipment
- Internal void spaces following hydrostatic testing

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### Key Advantages

- Multi-metal VCI corrosion protection for enclosed or sealable systems
- Designed for fogging of complex internal geometries and hard-to-reach voids
- Ready to use; no dilution required
- Vapor-delivered protection; minimal contact film
- Suitable as an alternative to nitrogen blanketing for temporary preservation under controlled conditions

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### Application Guidelines and Removal\*

- Fog or mist into enclosed void spaces
- Typical application rate: 0.2-0.4 L/m<sup>3</sup> (0.05 – 0.11 gal/m<sup>3</sup>)
- Application temperature: 41-120°F (5-49°C)
- Seal system immediately after application to retain VCI concentration – requires hermetic or near-hermetic sealing
- If removal is required, use a suitable neutral or alkaline aqueous cleaner\*

\*Consult a ZERUST® representative to discuss specific needs.

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product information



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### Typical Properties

Properties**	Details
Appearance	Light amber liquid
Substrate	Ferrous and common non-ferrous metals (multi-metal systems).
Surface Finish	Vapor-delivered protection; minimal contact film
VOC content EPA Method 24 (concentrate)	~0.69 lb/gal (83 g/L)
Freeze Point	~32°F (0°C)
pH	9.5 – 10.0
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)

\*\*Typical values are not meant to be a specification.

### Availability

Contact a ZERUST® representative for ordering information.

Product Number	Unit of Measure***
350-M-00118PL	5 gal (19 L) pail
350-M-00118DR	55 gal (208 L) drum

\*\*\*Product sold in US customary units. Metric units approximate.

### Storage

Store in original packaging at 32-85°F (0-29°C), away from sunlight. Do not freeze; thaw and mix if frozen. Reseal after use for up to 2 years of shelf life.

#### † DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental/ storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's/user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY/DISCLAIMER Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit [www.zerust.com/warranty](http://www.zerust.com/warranty).

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### Contact Us



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With over 50 years of experience, ZERUST Integrity Solutions®, a division of Northern Technologies International Corporation (NTIC), creates unique inhibitor-based corrosion prevention solutions to serve terminals, pipelines, exploration and production, equipment suppliers, transportation sectors, and more.

ZERUST Integrity Solutions®, ZERUST®/EXCOR®, and Natur-Tec® are sister companies under NTIC.



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