

# ZERUST® ZerioTec® Fog FV

## Technical Data Sheet

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### Product Description

ZERUST® ZerioTec® FOG-FV is a ready-to-use, water-based rust preventative designed for fogging and low-pressure spray applications to protect ferrous metals within enclosed or sealable systems. It combines contact corrosion inhibitors, hydrophobic barrier film formation, and Vapor Corrosion Inhibitor (VCI) technology to provide both surface and vapor-delivered corrosion protection.

ZerioTec® FOG-FV deposits a thin, water-displacing hydrophobic film on accessible metal surfaces while VCI vapors migrate throughout sealed spaces to protect hard-to-reach voids and internal geometries during preservation, layup, or post-hydrostatic testing.

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### Typical Applications

- Piping systems and flowlines
- Process vessels and separators
- Storage and transport tanks
- Heat exchangers and coolers
- Compressor skids and 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 corrosion protection with minimal contact film
- Suitable as an alternative to nitrogen blanketing for temporary preservation under controlled conditions

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### Operating Summary

- Water-based, foggable ferrous corrosion inhibitor
- Typical operating temperature range: 41-120°F (5-49°C)
- Designed for sealed or sealable systems to maintain effective VCI concentration
- For ferrous metals only (not recommended for aluminum, zinc, galvanized steel, or yellow metals)

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### Application Guidelines and Removal\*

- Application method: Fogging or low-pressure spray into enclosed void spaces
- Typical dosage: 0.2-0.4 L/m<sup>3</sup> (200-400 mL/m<sup>3</sup>)
- Application temperature: 5-49°C (41-120°F)
- Seal system immediately after application to retain VCI vapors
- Removal is typically not required; if needed, remove with an alkaline cleaner

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

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product information

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### Typical Properties

Properties**	Details
Appearance	Dark amber liquid
Substrate	Ferrous only. Not for aluminum, zinc, galvanized or yellow metals.
Surface Finish	Thin hydrophobic contact film plus vapor-delivered protection
VOC content EPA Method 24 (concentrate)	~1.49 lb/gal (179 g/L)
Freeze Point	14°F (-10°C)
pH	9.0 – 10.0
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)
Humidity Chamber	ASTM D1735 – Exceeds 500 hrs

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

### Availability

Contact a ZERUST® representative for ordering information.

Product Number	Unit of Measure***
350-F-00207PL	5 gal (19 L) pail
350-F-00207DR	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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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.

