



ZERUST
INTEGRITY SOLUTIONS

Zerion® FVS-DB Technical Data Sheet

Product Description

Zerion® FVS-DB is an advanced corrosion inhibitor engineered to protect aboveground storage tanks, underground storage tanks and buried vessels from corrosion of their external surfaces in contact with sand pads and backfill. Zerion® FVS-DB effectively mitigates risks associated with water ingress, inactive cathodic protection (CP) systems, moisture and contaminated sand pads. A unique blend of Soluble Corrosion Inhibitors (SCIs) to neutralize contaminants and Vapor Corrosion Inhibitors (VCIs) for airspace protection, ensuring dual-action, proven effectiveness.

Zerion FVS-DB is typically diluted in potable water and injected into the sand pad during construction, maintenance, or operation. The custom-engineered solution is constructed based on foundation design, asset condition, contamination level, and sand quality.

Typical Applications

- Out of service tanks
- Newly built tanks
- In-service tanks

Key Advantages

- Cost-effective for large volume sand pads
- Vapor Corrosion Inhibitor (VCI) provides airspace protection, covering gaps between the sand pad and portions of the soil-side bottom not in contact with the sand.
- Soluble Corrosion Inhibitor (SCI) neutralizes contaminants and corrosive species in sand pads
- Effective on pre-corroded tanks

Operating Summary

- Dissolve Zerion® FVS-DB thoroughly in water at the recommended concentration and mix well prior to application
- Recommended dosage and application methodology depend on multiple factors.*

*Consult a Zerust® representative to discuss specific needs.

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product information

Zerion® FVS-DB

Technical Data Sheet

Typical Properties

Properties**	Details
Appearance	White powder
Substrate	Ferrous
pH	9 - 9.5 (1% in water)

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

Availability

Contact a Zerust® representative for ordering information.

Product Number	Unit of Measure****
460-F-00026PL	33 lb (15 kg) pail
460-F-00026SS	1,000 lb (454 kg) super sack

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

Storage

Store in original packaging in a dry, cool, and well-ventilated place; keep tightly closed for a shelf life of 36 months, unopened.

‡ 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.

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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.

