



ZERUST® ZerioGuard® 12

Technical Data Sheet

Product Description

ZERUST® ZerioGuard® 12 is a high-performance corrosion-inhibiting formulation specifically designed for hydrostatic testing and post-testing lay-up. This versatile solution is engineered to provide reliable, long-lasting protection for assets of various sizes and geometries.

ZerioGuard® 12 combines Soluble Corrosion Inhibitors (SCIs) and Vapor Corrosion Inhibitors (VCIs) to deliver comprehensive corrosion protection. SCIs protect metal surfaces in direct contact with the solution, making them ideal for fully filled assets during hydrostatic testing. VCIs, on the other hand, diffuse into airspaces within the asset, saturating these areas to safeguard against corrosion that may not be in direct contact with the solution.

With its advanced formulation, ZerioGuard® 12 simplifies application while delivering exceptional corrosion resistance and durability, effectively mitigating corrosion risks during hydrostatic testing and subsequent storage.

Typical Applications

- Hydrotesting of pipelines, piping systems and vessels
- Wet layup

Key Advantages

- Effective at low concentrations
- Neutralizes contaminants and corrosive species in the hydrotest water
- System remains protected after draining of water due to VCI protection

Operating Summary

- Mix ZerioGuard® 12 thoroughly into water until fully dissolved. Concentration depends on length of time the asset will be in contact with the solution, condition of the asset, and quality of the water.*
- Apply solution to asset as specified in the Scope of Work. A ZERUST® Field Engineer can be assigned to oversee the operation.
- Dispose of the solution in accordance with local, regional, national, and international regulations as applicable.

*Consult a ZERUST® representative to discuss specific needs.

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product information



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Typical Properties

Properties**	Details
Appearance	White Powder
Substrate	Ferrous
pH	9 - 10 (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-00025PL	33 lb (15 kg) pail
460-F-00025SS	1,000 lb (454 kg) super sack (Made To Order)

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

Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Shelf life: 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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Supersedes: v2
Revised: 03/19/2026



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.

