



ZERUST® ZerioGuard™ 5

Technical Data Sheet



Product Description

ZERUST® ZerioGuard™ 5 is a soluble corrosion inhibitor (SCI) powder designed to provide reliable protection for ferrous metals during hydrotesting.* When dissolved in water, it creates an alkaline environment that neutralizes acidic species, effectively reducing the risk of flash corrosion. It delivers optimal performance at low concentrations, depending on water quality, protection requirements, and wet lay-up duration.†

*The formulation also provides supplemental protection to copper and copper-based alloys commonly present in mixed-metal systems.

Typical Applications

- Hydrostatic Testing of Pipelines: Protects pipelines during water pressure testing.
- Hydrostatic Testing of Equipment: Applicable to pumps, valves, fittings, and other components primarily made of ferrous metals.
- Suitable for systems containing incidental copper or copper-alloy components

Key Advantages

- Corrosion Protection: Effective prevention of flash corrosion on ferrous metals during hydrostatic testing and short-term lay-up.
- Efficiency at Low Concentration: Works effectively at low concentrations.
- Alkaline Environment: Neutralizes acidic species in water.
- Potable Water Compatibility: Safe for use with potable water systems.
- Cost-Effective: Reduces the need for additional treatments post-hydrotesting, making it economical for short-term use.
- Mixed metal compatibility: Contains corrosion-inhibiting components that provides supplemental protection for yellow metals in mixed-metal hydrotest systems.

Operating Summary

- Mix ZerioGuard 5 thoroughly into water. Concentration depends on the length of time the asset will be in contact with the solution, condition of the asset, and quality of the water.**
- Perform hydrostatic testing using the prepared solution as outlined in the Scope of Work. A ZERUST® Field Engineer can be assigned to oversee the operation.
- Dispose of the solution in compliance with all applicable local, regional, national, and international regulations.

**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 (primary) Copper and copper alloys (supplemental protection)
pH	9.5-10.5 (as aqueous solution)

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

Availability

Contact a ZERUST® representative for ordering information.

Product Number	Unit of Measure****
460-F-00024PL	40 lb (18 kg) pail
460-F-00024SS	2,000 lb (907 kg) super sack

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

Storage

Store in original packaging in a cool, dry place away from sunlight; 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 contaminant-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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Contact Us



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A product of:
Northern Technologies
International Corp
4201 Woodland Road
Circle Pines, MN 55014 USA
Toll-Free: +1 (800) 328-2433
www.ZerustIS.com

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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.

