

AxxaVis™ HST-10

Technical Data Sheet

ZERUST®/EXCOR® AxxaVis™ HST-10 is a water-soluble powder additive that treats water and deactivates ionic contaminants found in water sources that cause rust and hard water deposits on metals during hydrostatic testing. AxxaVis™ HST-10 is a highly effective way to protect the interior surfaces of pressure vessels from corrosion that can rapidly form during and after hydrostatic testing. Add the product to water to make it suitable for hydrostatic test processes conducted on pressure vessels such as pipes, heat exchangers, storage tanks, and ship voids. Designed for use on ferrous metals only, it is not compatible with aluminum. For applications involving copper, brass, or other metal alloys containing red/yellow alloys, it may be used in conjunction with ZERUST®/EXCOR® Axxatec™ HST-M100 additive.

Used AxxaVis™ HST-10 product can be analyzed for quality and, in some cases, reused. Spent AxxaVis™ HST-10 working fluid may be discharged into the soil or marine environments (subject to normal legislative restrictions). AxxaVis™ HST-10 does not contain solvent, is non-flammable, compliant with Global Automotive Declarable Substance, TSCA, ECHA SVHC, RoHS, and REACH requirements, and is environmentally friendly.

For over 50 years, beginning with the invention of Vapor Corrosion Inhibiting (VCI) film packaging, ZERUST® has led the market in quality corrosion solution products. We are dedicated to providing expert corrosion management services and broadening the range of corrosion solutions for our customers. In addition, ZERUST® users have access to on-site support from ZERUST®/EXCOR® representatives in more than 70 countries. As a result, our customers have peace of mind when they choose ZERUST® for corrosion control management.

Typical Properties

Appearance	White powder
Substrates	Ferrous. **Warning:** Not compatible with aluminum. However, it may be used in conjunction with ZERUST®/EXCOR® Axxatec™ HST-M100 additive, added at 0.5 – 2% in 0.5% AxxaVis™ HST-10 working solution for applications containing copper, brass, or other metal alloys containing red/yellow alloys. For applications containing aluminum, Axxatec™ HST-M100 is the desired product.
pH (0.5 – 2% solution)	9.8 – 10.2

This data sheet provides general guidelines for operation, application, and removal. Please contact your ZERUST®/EXCOR® account representative for more specific recommendations on your particular operation and conditions.

Operating Summary

- 25 lb. treat 150 – 600 gallons depending on water quality (see chart below).

Condition of Water*	Add Rate per liter (1000 g) of water	For 5 gal (41.65 lb.) of water	For 55 gal (458.15 lb.) of water
60 ppm Cl-300 ppm $CaCO_3$	5 g	0.21 lb. (95 g)	2.30 lb. (1,043 g)
90 ppm Cl-450 ppm $CaCO_3$	7.5 g	0.32 lb. (142.5 g)	3.45 lb. (1,565 g)
120 ppm Cl-600 ppm $CaCO_3$	10 g	0.42 lb. (190 g)	4.60 lb. (2,086 g)
240 ppm Cl-1200 ppm $CaCO_3$	20 g	0.84 lb. (380 g)	9.20 lb. (4,172 g)

* For ionic contaminant levels above these amounts or when using salt water for dilution, contact your ZERUST®/EXCOR® account representative for specific dilution recommendations to ensure optimal performance and corrosion protection in high ionic environments.

Application Technologies

- Can be used as a hydrostatic test additive.

Product Removal

- AxxaVis™ HST-10 is designed to be flushed from the closed system with the use of deionized water after hydrostatic testing.

Product Control

- Used product may be tested for quality and reuse. Check with your ZERUST®/EXCOR® account representative on guidelines for reuse.

Scan QR for more product information and photos

Availability

ZERUST®/EXCOR® AxxaVis™ HST-10 is sold as a powder additive. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Quantity*
460-M-00002CA	25 lb. (11.3 kg) case
460-M-00002SU	800 lb. (362.9 kg) sack

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

Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is < 85°F (29°C) and 50% RH for up to 2 years from the date of shipment.
- Reseal or close the case or sack after each use.

Disposal

- Check with local, state, and national regulatory agencies on permit requirements before disposal.
- Spent fluid may be discharged in soil or marine environments (subject to normal legislative restrictions). Soil spike test (EPA Method 1644) conducted at 20 g/L water in 1 kg of soil showed No Observable Effect Concentration (NOEC).

Precautions

- The product is nitrite-free. However, it's manufactured on shared equipment that processes nitrites and may contain trace amounts.
- Avoid contact with eyes and skin.
- Provide adequate ventilation and minimize exposure to dust.
- Do not breathe dust.
- Wear personal protective equipment as stipulated in the Safety Data Sheet (SDS).
- Refer to SDS for more safety information.

‡ **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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