ZERUST® EXCOR®

Axxanol™ 33

Technical Data Sheet

ZERUST®/EXCOR® Axxanol™ 33 is an oil-based rust preventative that forms a light oily film, providing powerful corrosion protection against aggressive environments such as salt air and humidity. Use Axxanol™ 33 to replace standard oil in dipping applications, such as in-line rolling mills, cold-rolled sheets and coils, wire bars, and cast and machined metals. As a result, ferrous metals are protected for up to 3 months‡ during shipment, storage, and work-in-progress.

After application and allowing metals to completely dry, place them into ZERUST® Vapor Corrosion Inhibitor (VCI) film packaging products for a more robust solution that protects for up to 6 months‡ during indoor storage or challenging shipping conditions, such as ocean freight. If the coating needs to be removed from the metal surface, use a compatible ZERUST® AxxaWash™ product, commercial alkaline, or solvent cleaner. Axxanol™ 33 does not intentionally contain barium or heavy metals and complies with Global Automotive Declarable Substance, TSCA, RoHS, and REACH SVHC requirements.

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	Yellow oil results in a light oily film.
Substrates	Ferrous protection
Coverage*	269 ft² (25 m²) per L
Dry film thickness (DFT)*	≈ 0.12–0.20 mil (3–5 µm)
VOC content EPA Method 24	1.03 lb/gal (123 g/L)
Flashpoint ASTM D93	320°F (160°C)
Kinematic viscosity	≈ 18–25 cSt @ 104°F (40°C)

*The theoretical coverage estimates, based on the stated dry film thicknesses (DFT), should only be used as a guide. These estimates were generated based on internal lab measurements of product coating on flat, smooth 1010 steel stock. Actual coverage data will vary in actual use based on the method of application, type of equipment used, part geometry, surface roughness, drain-off time, drag-out rate, evaporative loss, transfer efficiency, and other process variables.

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

- Ready-to-use oil-based rust preventative liquid.
- Typical application temperature: ambient in most operations.
- See Safety Data Sheet (SDS) section 7 for safe handling recommendations.

Application Technologies

- Can be used in immersion or spray processes.
- To prevent water contamination of the Axxanol™ 33 solution, a dewatering step is recommended. Contact your dedicated ZERUST®/EXCOR® account representative for more specific recommendations on your particular operation and conditions.

Product Removal

- Axxanol™ 33 can be removed from the metal surface with the use of a compatible ZERUST® AxxaWash™ product, commercial alkaline, or solvent cleaner.

Product Control

- Spray application: do not reuse collected product from spray booths or drip pans.
- Immersion application: for extended dip tank use, contact your dedicated ZERUST®/EXCOR® account representative.

Scan QR for more

product information and photos

Availability

ZERUST®/EXCOR® Axxanol™ 33 is sold as a ready-to-use liquid product. Contact your ZERUST®/EXCOR® representative for ordering information.

Quantity
35 L Can
210 L Drum

Protection Info‡

Indoor (unpackaged)‡	Up to 3 months‡
Indoor (w/ ZERUST® VCI packaging)‡	Up to 6 months‡
Outdoor‡	Not recommended
Humidity ASTM D1748	Up to 600 hours
Compatible with packaging	Yes

The protection durations listed in this Technical Data Sheet apply only to HNTI products. Products with the same name marketed in other regions may have different protection durations and should be referenced using the applicable regional Technical Data Sheet.

Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is 50 – 90°F (10 – 32°C) for up to 1 year from the date of shipment.
- Reseal or close the container cap after each use.

Disposal

- Dispose of in accordance with local, national, and international regulations.

Precautions

- Always mix well before use.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- 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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A product of:
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