

Axxatec[™] 48C Technical Data Sheet

ZERUST[®]/EXCOR[®] Axxatec[™] 48C is a water-based liquid concentrate rust preventative designed to provide up to 6 months[‡] of indoor storage, shipping, and assembly protection. Furthermore, Axxatec[™] 48C protects ferrous, aluminum, and yellow metals, making it an ideal rust preventative product for parts containing multiple metals.

When applied and dried, it leaves a safe, clear, dry-to-touch protective coating. As a result, Axxatec[™] 48C coated and dried parts are safe to handle, and end users do not need to wear personal protective equipment such as a respirator, mask, or safety glasses, making it safer and more economical to use than solvent-based systems. Even though gloves are not mandatory, we recommend using clean gloves without lint or talc to keep metals free of contaminants. After allowing metals to completely dry, place them into ZERUST[®] Vapor Corrosion Inhibitor (VCI) film packaging products for a more robust solution that protects for years[‡] during indoor storage or challenging shipping conditions, such as ocean freight. Axxatec[™] 48C does not contain solvent or VOC, is non-flammable, complies with Global Automotive Declarable Substance, TSCA, 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	Light amber water-like liquid
Surface finish	Clear, dry-to-touch
Substrates	Multimetal protection
VOC content EPA Method 24 (concentrate)	Components contain no VOC according to CARB.
Freeze point	21°F (-6°C)
pH (concentrate)	9 – 10
pH (5% solution)	9 – 10

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

- Dilute between 3 – 10% in water.
- Typical operating temperature: $\geq 72^{\circ}\text{F}$ (22°C) in most operations.
- Deionized or reverse osmosis water is required for bath makeup and rinsing to improve bath life and reduce corrosion potential, as the product is not hard water compatible.
- Dry well after application.

Application Technologies

- Can be used in immersion or hand spray processes.

Product Removal

- Axxatec[™] 48C is designed to be left on the metal surface as a rust preventative product. However, it can be rinsed and removed from the metal surface with the use of a compatible ZERUST[®] AxxaWash[™] product or contact your ZERUST[®]/EXCOR[®] account representative for more specific removal recommendations on your particular operation and conditions.

Product Control

Axxatec[™] 48C is controlled by titration. To test the concentration:

- Pipette a 20 mL sample of the bath solution into a beaker.
- Add 50 mLs of DI, RO, or distilled water.
- Add 10 drops of bromocresol green indicator solution. The solution should turn green.
- Titrate with 0.1 N hydrochloric or sulfuric acid until the color turns yellow.
- Use the following table to determine concentration.

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product information
and photos

% Axxatec™ 48C	Titrant Volume (mLs)
1	1.3
3	3.3
5	5.2
7	7.1
9	9.1

Availability

ZERUST®/EXCOR® Axxatec™ 48C is sold as a liquid concentration. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Quantity*
350-M-00097PL	5 Gal (19 L) Pail
350-M-00097DR	55 Gal (208 L) Drum
350-M-00097TT	275 Gal (1041 L) Tote

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

Protection Info‡

Indoor (unpackaged)†	Up to 6 months†
Indoor (w/ ZERUST® VCI packaging)†	For years†
Outdoor†	Not recommended
Compatible with packaging	Yes

Storage

- Store in a cool, dry place and away from sunlight in the original packaging.
- Optimal storage temperature is 40 – 100°F (4 – 38°C) for up to 2 years from the date of shipment.
- If the product freezes, bring it to room temperature and mix well.
- Reseal or close the container cap after each use.

Disposal

- Dispose of in accordance with local, national, and international regulations.
- Product in an unopened original container prior to use does not meet criteria for hazardous waste according to 40 CFR 261 (no components listed on F, K, P, or U lists; not ignitable, not corrosive, not reactive, and not toxic).

Precautions

- Product foams when used in pressurized spray applications. Contact your ZERUST®/EXCOR® representative for recommendations for suitable defoaming agents.
- Always mix well before use.
- Deionized or reverse osmosis water is recommended for bath makeup and rinsing to improve bath life and reduce corrosion potential.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Avoid contact with eyes and skin.
- Provide adequate ventilation and minimize exposure to vapors.
- Do not breathe mist, spray, or vapors.
- 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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