

Axxanol™ 710C

Technical Data Sheet

ZERUST®/EXCOR® Axxanol™ 710C is a corrosion-inhibitor oil additive that protects using ZERUST® Contact Inhibitors and Vapor Corrosion Inhibitors (VCI). It provides corrosion protection of metal surfaces within the void spaces of closed systems, such as internal combustion engines, transmissions, gearboxes, hydraulic systems, or other sealed, lubricated systems.

During periods of storage, shipping, or field lay-up, lubricating oils will drain from the interior surfaces of systems and flow back into the sumps, leaving these surfaces susceptible to corrosion caused by condensation of humid air. When mixed with new, respective, approved lubricating oils per system set, Axxanol™ 710C emits Vapor Corrosion Inhibitor molecules into the voids and migrates to hard-to-reach internal surfaces, thus offering corrosion protection for up to 5 years[†] for these systems. Additionally, Axxanol™ 710C 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	Brown oil-based VCI corrosion inhibitor liquid concentrate.
Substrates	Multimetal protection for ferrous, cast aluminum (A380), brass, and galvanized metals.
Compatibility [†]	Engine oils, diesel oils, hydraulic oils, gearbox oils, nitrile, and silicone elastomers.
VOC content EPA Method 24	0.16 lb/gal (19 g/L)
Flashpoint ASTM D93	149°F (65°C)
Kinematic viscosity	≈ 48.1 cSt @ 104°F (40°C)
TBN	55.6 mg KOH/g
Vapor Inhibiting Ability (VIA)	Pass (TM0208)

[†] Engine oil compatibility test report performed by an independent lab. Available upon request. The product is NOT compatible with PAG-based oil. A compatibility test is required before using the product, especially with synthetic or bio-based base oils. Please contact your ZERUST®/EXCOR® account representative for more specific compatibility test recommendations.

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 3 – 10% in oil (3% typically recommended. With an addition rate above 3%, drain and refill the system with new unblended oil when the engine is being put back into service).
- Typical application temperature: ambient in most operations.
- See Safety Data Sheet (SDS) section 7 for safe handling recommendations.

Application Technologies

- Add concentrate to the oil prior to filling the chambers.
- Premix in new oil at the recommended concentration and then add to the sump.
- For best results during storage, turn the engine over for 1 – 2 minutes once every month to optimize corrosion contact and inhibitor protection.

Product Removal

- Before placing an asset back into service, it is highly recommended that the storage oil be drained from the asset and recharged with fresh oil to the required operating level.

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product information
and photos

Availability

ZERUST®/EXCOR® Axxanol™ 710C is sold as a liquid concentrate. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Quantity*
350-M-00045PL	5 Gal (19 L) Pail
350-M-00045DR	55 Gal (208 L) Drum

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

Protection Info†

Closed system† Up to 5 years†

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 2 years from the date of shipment.
- Reseal or close the container cap after each use.

Disposal

- Collect waste when removing.
- Dispose of in accordance with local, national, and international regulations.
- Handle empty containers with care because residual vapors may be flammable.
- Avoid release to the environment.

Precautions

- Not intended to be added to fuels for working engines or equipment.
- The product is NOT compatible with PAG-based oil. A compatibility test is required before using the product, especially with synthetic or bio-based base oils. Please contact your ZERUST®/EXCOR® account representative for more specific compatibility test recommendations.
- Not for use on electronics.
- 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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