ZERUST® EXCOR®




# EcoCap™ 10 Capsule

**Technical Data Sheet**

ZERUST®/EXCOR® EcoCap™ 10 is a fully paper-based, recyclable corrosion protection capsule designed for enclosed industrial and electrical applications requiring an eco-friendly solution. It incorporates ZERUST® Vapor Corrosion Inhibitors (VCI) to protect exposed metal surfaces from corrosion caused by humidity and atmospheric contaminants during operation, shipping, and storage. The VCI chemistry is invisible, odorless, non-toxic, and dissipates upon enclosure opening, allowing immediate painting, welding, or further processing. Its design also allows the capsule to be positioned in any appropriate location within the enclosure to suit specific application needs.

The EcoCap™ 10 Capsule is made entirely from FSC-certified recyclable cardboard and paper-based components, providing a plastic-free alternative to traditional corrosion control solutions that significantly reduces landfill waste compared to conventional VCI emitters, making it a more environmentally friendly option for corrosion protection. Additionally, EcoCap™ 10 Capsule complies with Global Automotive Declarable Substance, TSCA, REACH, RoHS, and TRGS615 requirements.

For over 50 years, ZERUST® VCI and Intelligent Counter-Corrosion Technologies (ICT®) have proven their performance and safety with thousands of customers worldwide. It is used to protect valuable metal items for manufacturers in industries such as automotive, agricultural, aerospace, and mining. ZERUST®/EXCOR® offers on-site support and service in more than 70 countries via a network of 21 joint venture partnerships. Check with your ZERUST®/EXCOR® representative for a comprehensive corrosion management solution that is most effective for your metal assets.

## Typical Properties*

| | |
|---|---|
| Appearance | Brown cardboard box with VCI kraft paper chips inside. |
| Substrates | Multimetal protection formulation (ferrous, aluminum, brass, copper, and zinc). |
| Vapor Inhibiting Ability (VIA) | Pass (NACE TM0208) |

* NTIC obtains its paper from U.S.-based suppliers and mills certified by the Forest Stewardship Council (FSC). Due to natural variations, the tree fibers and pulps supplied by these mills can differ based on the season and their geographical origins. While we strive to maintain a consistent quality and 'feel' in our VCI paper, the inherent diversity in nature means that the tree fibers may vary, leading to potential variations in the paper from one batch to another. However, we ensure the consistency of two key aspects: the corrosion protection performance and the weight of our paper products.

***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

- Remove the EcoCap™ 10 Capsule from its individual plastic packaging. Do not disassemble / open the capsule/cardboard box (it is part of the structure of the capsule).
- Mark or take note of the installation date. EcoCap™ 10 Capsules are rated to provide up to 1 year‡ of protection (See **Protection Info** on page 2 for specific protection capabilities).
- Place the EcoCap™ 10 Capsule in the most ideal location possible, following the principles below:
  - Center: The ideal location to obtain maximum coverage of protection from the capsule. This position may not be possible if the center is occupied.
  - Corner: In deeper enclosures, two capsules may be required on diagonally opposed corners to fully protect the entire space.
  - Sides: This is practical for most applications and provides the optimum side-mounted protection.
- Ensure that the airflow to the enclosure is restricted. It is essential to restrict airflow to the container, as airflow removes the protective vapor barrier from the space faster than it can be released from the EcoCap™ 10 Capsule.
  - When applying an EcoCap™ 10 Capsule within enclosures where the air is replaced regularly, such as air-cooling systems for computer equipment, it is recommended to place the capsule close to the source of airflow. For added corrosion protection, consider placing an additional EcoCap™ 10 Capsule near the sensitive metal surface to be protected.
- Ensure the metal parts and/or electrical components requiring corrosion protection are clean and dry.

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**product information and photos**

## Availability

ZERUST®/EXCOR® EcoCap™ 10 Capsules are in stock for immediate delivery, sold in cases. Contact your ZERUST®/EXCOR® representative for ordering information.

| Part Number | Model | Quantity |
|---|---|---|
| 375-M-00231 | EcoCap™ 10 | 60/Case |

## Protection Info‡

| Model | Product Dimensions* W x H | Normal Environment** | |
|---|---|---|---|
| | | Protection Volume (Up to)‡ | Protection Duration (Up to)‡ |
| **EcoCap™ 10** | 3.5″ x 5″ x 1″ | 10 $ft^3$ (0.28 $m^3$)‡ | 1 year‡ |

* +/- 10%.
** Normal environment (below 0.2 ppm $SO_2$)

## 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 1 year from the date of shipment.
- Unused EcoCap™ 10 Capsules should be immediately placed back into the original container (inner plastic bag) and sealed for storage.

## Disposal

- The contents of EcoCap™ 10 Capsules do not meet the 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).
- The entire EcoCap™ 10 capsule is recyclable, offering a convenient and environmentally responsible disposal option.
- Since regulations vary by location, ZERUST® advises our customers to review local regulations to ensure proper disposal.

## Precautions

- Do not install the capsule where it will be submerged in water.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- Do not disassemble. Keep away from children. Safe for people. This product does not pose a health hazard to users due to its classification as an article according to UN GHS, US OSHA HazCom, and CA WHMIS regulations. Check REACH SDS for classification in EU.
- Refer to the Safety Data Sheet (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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