



Vapor Capsules Technical Data Sheet

ZERUST®/EXCOR® Vapor Capsules are portable capsules containing proven ZERUST® Vapor Corrosion Inhibitor (VCI) technology. They are used to protect metals in hard-to-reach areas of control panels, electrical cabinets, or any other enclosed spaces from corrosion. They even protect when items are in operation or may be used as a supplement to other ZERUST® VCI packaging products for added protection. Vapor Capsules are quick and easy to install. Simply peel back the protective paper from the adhesive tape and install it securely in the desired location. Next, tightly seal the enclosure to trap protective vapor inside.

ZERUST® Vapor Capsules diffuse invisible, odorless, and non-toxic ZERUST® VCI molecules that settle onto exposed metal surfaces inside the packaging or enclosure. Upon removal from the packaging or enclosure, the VCI will dissipate from the metal surfaces, allowing immediate painting, welding, or further processing. Vapor Capsules protect multiple metal types from rust and tarnish for up to 1 or 2 years⁺, depending on the capsule model (See Protection Info on page 2 for specific protection capabilities) in a sealed enclosure.

For over 50 years, ZERUST® VCI technology has proven its 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	PE-plastic capsule and foam or protective foam containing active pellets.
Substrates	Multimetal protection.
Vapor Inhibiting Ability (VIA)	Pass (NACE TM0208)

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 product from the packaging.
- Mark or take note of the installation date. Vapor Capsules are rated to provide up to 1 or 2 years⁺ of protection, depending on the model (See Protection Info on page 2 for specific protection capabilities).
- Place the Vapor 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.
 - Dual Placement: For longer boxes or divided spaces, place a capsule in opposite corners for complete coverage.
- 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 Vapor Capsule.
 - When applying a Vapor 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 Vapor Capsule near the sensitive metal surface to be protected.
- Upon removal of the ZERUST® Vapor Capsule or opening the enclosure, the ZERUST® protective molecules will dissipate from the metal surface in a few hours. Corrosion protection of the metal surface will also cease by this time.

Availability

ZERUST®/EXCOR® Vapor Capsules are in stock for immediate delivery and sold in cases. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Model	Quantity
375-M-00006	VC1-1(s)	50/Case
375-M-00001	VC1-1	50/Case
375-M-00002	VC2-1	25/Case

Part Number	Model	Quantity
375-M-00003	VC2-2	10/Case
375-M-00004	VC6-1	4/Case
375-M-00005	VC6-2	4/Case

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Protection Info[‡]

Model	Product Dimensions* L x W x H	Protection Volume (Up to) [‡]	Protection Radius (Up to) [‡]	Protection Duration (Up to) [‡]
VC1-1(s)	1 ¼" x 1" x ¾"	4 ft ³ (0.12 m ³) [‡]	1 ft (30 cm) [‡]	1 year [‡]
VC1-1	2 ¼" x 1" x ¾"	4 ft ³ (0.12 m ³) [‡]	1 ft (30 cm) [‡]	1 year [‡]
VC2-1	2 ⅙" x 1 ¼" x 1"	35 ft ³ (1 m ³) [‡]	2 ft (60 cm) [‡]	1 year [‡]
VC2-2	3" x 1 ¼" x 1"	35 ft ³ (1 m ³) [‡]	2 ft (60 cm) [‡]	2 years [‡]
VC6-1	8" x 4" x 2"	900 ft ³ (25 m ³) [‡]	6 ft (200 cm) [‡]	1 year [‡]
VC6-2	8" x 4" x 2"	900 ft ³ (25 m ³) [‡]	6 ft (200 cm) [‡]	2 years [‡]

*Dimensions are +/- 10%

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.

Disposal

- The contents of Vapor 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).
- Vapor Capsules may be disposed of in the general solid waste trash.
- 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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