

ICT® Open Cell VCI Foam Pad

Technical Data Sheet

ZERUST®/EXCOR® ICT® Open Cell VCI Foam Pads are a convenient way to provide added corrosion protection in packaging or an effective way to improve protection in demanding environments and on lightly contaminated parts. The nitrite and chromate-free foam pads contain proven ZERUST® Vapor Corrosion Inhibitor (VCI) technology. They are pre-cut, flexible, and easy to insert into small spaces, protecting metals in hard-to-reach areas from corrosion in almost any enclosure. ICT® Open Cell Foam Pads contain a high saturation of VCI, which allows the foam pads to protect more volume and surface area of densely packed and intricate parts. Additionally, the foam may darken when used with VCI film, but color change does not affect product performance.

Open Cell VCI Foam Pads 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. Open Cell Foam Pads protect ferrous and some non-ferrous metals such as aluminum, brass, and copper in an enclosure for up to 1 year[†]. However, it's important to test before use if the foam pad will come in contact with the metal surface.

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	White open cell polyurethane foam.
Substrates	Ferrous (steel, iron, and alloys) and some non-ferrous (aluminum, copper, brass, bronze) protection. Test before use in direct contact with metal surfaces. The product may leave residue after direct contact with metal.
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.
- Take note of the installation date. Open Cell VCI Foam Pads are rated to provide up to 1 year[†] of protection (See Protection Info on page 2 for specific protection capabilities).
- Place the foam pad in the most ideal location possible following the principles below:
 - Center: The ideal location to obtain maximum coverage of protection from the foam pad. This position may not be possible if the center is occupied.
 - Corner: In deeper enclosures, two foam pads 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 foam pad in opposite corners for complete coverage.
 - Test before use in direct contact with painted and metal surfaces.
- 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 foam pad.
 - When applying foam pads within enclosures where the air is replaced regularly, such as air-cooling systems, it is recommended to place the foam pad close to the source of airflow. For added corrosion protection, consider placing an additional Open Cell VCI Foam Pad near the sensitive metal surface to be protected.
- Upon removal of the Open Cell VCI Foam Pad 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.

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product information
and photos

Availability

ZERUST®/EXCOR® ICT® Open Cell VCI Foam Pads are in stock for immediate delivery and sold in cases. Additional sizes (1" x 1", 2" x 5", 2" x 10", 9" x 9") are available upon request, and minimum orders apply. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Quantity
375-F-00007	1000/Case
375-F-00008	100/Case

Protection Info‡

Model	Product Dimension* L x W x D	Protection Volume (Up to)‡	Protection Duration (Up to)‡
ICT® Open Cell VCI Foam Pad	2" x 5" x .25"	1.5 ft ³ (0.04 m ³)‡	1 year‡

*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 1 year from the date of shipment.
- Reseal packaging after use. Products exposed to the environment over prolonged periods of time may become less effective.

Disposal

- Open Cell VCI Foam Pads 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 Foam Pad where it will be submerged in water.
- The foam may be yellow when used with ZERUST® VCI bags but will remain effective.
- Test before use in direct contact with painted surfaces.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).
- 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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