



ICT® VCI Tote Covers

Technical Data Sheet

ZERUST®/EXCOR® ICT® Tote Covers are a convenient packaging product made of ZERUST® VCI film with an elastic band designed to provide a secure fit over totes and odd-shaped or protruding parts such as hub assemblies, protecting against corrosion, dirt, dust, smoke, and other contaminants while keeping them visible and easy to access. ICT® Tote Covers diffuses invisible, odorless, and non-toxic ZERUST® Vapor Corrosion Inhibitors (VCI) that settle onto exposed metal surfaces inside the tote or packaging. Upon removal from the tote or part, the VCI will dissipate from the metal surface, allowing immediate painting, welding, or further processing.

Use ZERUST® VCI Tote Covers to protect metal components, machined and cast parts, and more from rust and corrosion for years*. For additional protection in challenging environments, ZERUST® VCI Tote Covers may be used with ZERUST® rust inhibitors, preventatives, coatings, or VCI diffuser products. The covers are typically made of ZERUST® ICT®510-CLHD High-Density VCI Film but can be made from almost any ZERUST® film product as required by the application. Tote Covers fit the most common sizes of plastic stackable totes and are reusable when in good condition. Whether in work-in-progress, storage, or transit, ZERUST® ICT® Tote Covers deliver unparalleled performance.

ZERUST® is the inventor of poly VCI technology, and ZERUST® VCI film has proven its performance and safety with thousands of customers worldwide for over 50 years. 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 Typical color is yellow. Additional colors are available upon request. Subject to order minimums.
- Substrates Ferrous protection formulation (steel, iron, cast iron, and its alloys). Other protection formulations are available upon request.

Property	Direction (Machine or Transverse)	ICT® VCI Tote Covers*	ASTM Test Method
Film Thickness	-	1.5 mil (38 µm)	D-6988
Dart Impact Resistance	-	146 g	D-1709
Tensile Strength at Break	MD	26.5 MPa (3843 psi)	D-882
	TD	33.4 MPa (4844 psi)	
Elongation at Break	MD	627 %	D-882
	TD	382 %	
Vapor Inhibiting Ability (VIA)	-	Pass	NACE TM0208

* Typical values, not meant to be a specification.

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

- Pack only clean and dry parts.
- Always wear clean and dry gloves when handling the metal parts to protect them from corrosion-causing fingerprints.
- When packing, the temperature of the metal parts should be about the same as the room temperature to avoid condensed moisture.
- Place the ICT® VCI Tote Cover over the tote and verify it forms a tight seal. If there is airflow, tape the tote cover to the tote to restrict airflow.
- Insert additional ZERUST® materials (such as ICT®420-35 VCI Kraft Paper) as interleave for added protection in larger and tightly packed or layered packages.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).



product information and photos

Availability

ZERUST®/EXCOR® ICT® VCI Tote Covers are available in stock and have non-stock options and additives, such as UV and anti-static, subject to minimum order quantities. Contact your ZERUST®/EXCOR® representative for ordering information.

Part Number	Metal Type	Quantity
675-F-00003	Ferrous	30" x 30" x 1.5 mil (100/Case)

Size Specification:

The ZERUST® ICT® VCI Tote Cover fits most standard tote sizes, including:

- 14" x 12"
- 16" x 14"
- 20" x 14"
- 22" x 16"
- 24" x 16"
- 24" x 18"

Protection Info‡

Indoor‡ Protects clean metals for years‡ when used correctly.

Outdoor‡ Not recommended

Storage

- Store in a cool, dry place and away from sunlight in the original packaging for up to 3 years from the date of shipment.

Disposal

- Check on options for recycling and incineration.
- Dispose of in accordance with local, national, and international regulations.

Precautions

- Do not use for outdoor protection.
- Safe for people. This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom, CLP, and CA WHMIS regulations.
- Refer to the Safety Data Sheet (SDS) for 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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