

ICT[®] VCI Coil Covers
Technical Data Sheet

ZERUST[®]/EXCOR[®] ICT[®] VCI Coil Covers are tailor-made to protect metal coils from corrosion, dust, and contaminants during storage and transportation. ZERUST[®] VCI Coil Covers are made with an elastic band designed to fit over the top and bottom of metal coils with ZERUST[®] VCI machine stretch film wrapping and enclosing the entire coil to ensure comprehensive protection. These covers efficiently diffuse invisible, odorless, and non-toxic ZERUST[®] Vapor Corrosion Inhibitors (VCI) that settle onto exposed metal coil surfaces inside the packaging, preventing rust and corrosion while also serving as a physical barrier against environmental pollutants such as dirt, dust, and smoke. Upon removal from the packaging, the VCI will dissipate from the metal coil surfaces, immediately allowing further processing.

The transparent nature of the film allows for easy visibility of the coils, facilitating quick identification and inspection without removing the cover. Engineered for a broad range of applications, these custom-sized Coil Covers are typically made with ICT[®]510-CLHD High-Density VCI Film but can be produced from almost any ZERUST[®] film product. In addition, they are available in ferrous, non-ferrous, and multimetal formulations to meet specific application requirements. Reusable when maintained in good condition, VCI Coil Covers offer a durable, effective solution for maintaining the integrity of metal coils. Whether in storage or transit, ZERUST[®] ICT[®] VCI Coil 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 colors are blue, yellow, or green. Additional colors are available upon request. Subject to order minimums.
 Substrates Available in ferrous, multimetal, and non-ferrous protection formulations.

Property	Direction (Machine or Transverse)	ICT [®] VCI Coil Covers*	ASTM Test Method
Film Thickness	-	1.5 mil (38 µm)	D-6988
Dart Impact Resistance	-	146 g	D-1709
Elmendorf Tear Strength	MD	100 gf	D-1922
	TD	700 gf	
Tensile Strength at Break	MD	26.5 MPa (3843 psi)	D-882
	TD	33.4 MPa (4844 psi)	
Elongation at Break	MD	570 %	D-882
	TD	660 %	
Water Vapor Transmission Rate	-	0.15 (g/100 in ² day) @73°F (23°C), 90% RH	F-1249
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 coils.
- Always wear clean and dry gloves when handling the metal coils to protect them from corrosion-causing fingerprints.
- When packing, the temperature of the metal coils should be about the same as the room temperature to avoid condensed moisture.
- Place a fitted custom VCI Coil Cover with the elastic band over the skid before placing the coil.
- Pull the VCI Coil Cover over the bottom of the coil.
- Place an VCI Coil Cover over the top of the coil and pull down over the coil.
- After placing a VCI Coil Cover on the top and bottom of the coil, use ZERUST[®] VCI machine stretch film to wrap and enclose the complete packaging before banding the coil to the skid.
- Avoid placing metal surfaces in direct contact with wood or cardboard (sources of moisture and acid).

Scan QR for more



product information
and photos

Availability

ZERUST®/EXCOR® ICT® VCI Coil Covers are a made-to-order product available upon request in thicknesses 1.5 – 8 mil and can be made to fit various sizes of metal coils, subject to minimum order quantities. Contact your ZERUST®/EXCOR® representative for ordering information.

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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