

ZERUST® - EXCOR® VCI

✓ ZERUST® ICT®510-C VCI Ferrous Film

ZERUST®/EXCOR® ICT®510-C VCI Film provides cost-effective and versatile protection against corrosion damage for ferrous metals in shipping and storage. It protects steel, iron, cast iron, and its alloys. It is available in various-sized rolls, sheets, tubing, and bags.

ZERUST® VCI packaging film diffuses proprietary ZERUST® VCIs (Vapor Corrosion Inhibitors) to protect metals from rust. Use ZERUST® ICT®510-C VCI Film to protect metal components and assemblies, machined and cast parts, and more for years. For additional protection and use in challenging environments, packaging can be used with ZERUST® corrosion inhibitor liquid RPs and VCI diffuser products. Check with your ZERUST®/EXCOR® representative for a comprehensive corrosion management solution most effective for your metal assets.

ZERUST® is the inventor of poly VCI technology, and ZERUST® VCI film has proven its performance and safety* with thousands of customers worldwide for almost 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.

Application Example

A ferrous ZERUST® VCI Film gusseted bag lines a dunnage system to protect precision steel parts from corrosion in shipping.



▶ Benefits

Effective corrosion protection and packaging combined in one step

Metals are ready for use and assembly directly out of the packaging

Available in many different shapes and sizes

Provides safe* and effective ZERUST® VCI protection.

Recyclable

Application Type

Storage
Shipping
Work in progress

*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, and CA WHMIS regulations.

Product Information



Description	ZERUST®/EXCOR® ICT®510-C VCI Film is a polyethylene product impregnated with volatile corrosion inhibitors.
Appearance	Typical colors are clear, yellow, or green. Additional colors are available upon request. Subject to order minimums.
Protected Metal Types	Protects ferrous metals such as steel, iron, and its alloys.
Protection Duration	Protects clean metals for years when used correctly and utilized within three years from receipt. Not intended for outdoor use.

Storage Store in original packaging away from direct sunlight in conditions below 85°F (30°C) and 50% RH for up to 3 years from the date of shipment.

Property	Direction (Machine or Transverse)	ZERUST® ICT®510-C Film*	ASTM Test Method
Film Thickness	-	4 mil (102 µm)	D-6988
Dart Impact Resistance	-	300 g	D-1709
Tear Strength	MD	0.60 lb-f (2.7 N)	D-1938
	TD	0.65 lb-f (2.9 N)	
Tensile Strength at Yield	MD	1905 psi (13.1 MPa)	D-882
	TD	1538 psi (10.6 MPa)	
Tensile Strength at Break	MD	3045 psi (21.0 MPa)	D-882
	TD	2917 psi (20.1 MPa)	
Elongation at Break	MD	560%	D-882
	TD	610%	
Breaking Factor	MD	11.0 lb-f/in (1926 N/m)	D-882
	TD	11.5 lb-f/in (2014 N/m)	
Water Vapor Transmission Rate @78°F (26°C), 90% RH	-	0.06 g/(100 in ² /day)	F-1249
Vapor Inhibiting Ability (VIA)	-	Pass	NACE TM0208

* Typical values, not meant to be a specification.

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Availability

ZERUST®/EXCOR® ICT®510-C VCI Ferrous Film is available in many stock and custom options, such as UV and Anti Static additives. Contact a ZERUST® account manager for pricing and availability.

Size Range (width):

Bags & Tubing:
2" - 125" (flat)
2" - 150" (gusset)
Sheeting: 2" - 26'

Recyclable

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

Safety

- 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, and CA WHMIS regulations.
- ZERUST® VCI chemistry is safe for sensitive electronics. No galvanic effects, residues, or changes in the properties of metals. The protective molecules dissipate upon opening the package.

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