



✓ ZERUST® ICT® Poly VCI Film Bags

ZERUST®/EXCOR® ICT® VCI Bags provide convenient and proven protection against corrosion damage for metals in shipping and storage. They are available in ferrous, non-ferrous, anti-tarnish, and multimetal protection types and various flat, zipper, and gusseted sizes.

ZERUST® VCI Bags diffuse Vapor Corrosion Inhibitors to protect metal components, machined parts, engines, molds, and more from rust and corrosion. Use ZERUST® VCI Bags to line boxes and dunnage systems and combine packaging and corrosion protection in one step. ZERUST® VCI Bags range in size from two inches up to 150 inches and can be made with additives such as acid-gas blockers and anti-static. For additional protection, VCI film packaging can be used with ZERUST® corrosion inhibitor liquid RPs and VCI diffuser products.

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 large gusseted ZERUST® VCI Bag bag lines a shipping container to protect metal parts from corrosion in shipping and storage.



▶ 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 formulations 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 Bags are a polyethylene product impregnated with volatile corrosion inhibitors.
Appearance	Typical colors are clear, yellow, or green. Additional colors and custom printing are available upon request.
Protected Metal Types	Available in ferrous, multimetal, anti-tarnish, and non-ferrous protection formulations.
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.

DECLARATION

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Availability

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

Size Range (width):

2" - 125" (flat)
2" - 150" (gusset)

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.

A product of:
Northern Technologies
International Corp
4201 Woodland Road
Circle Pines, MN 55014
USA

Phone. +1 763.225.6600
Fax. +1 763.225.6645
sales@zerust.com
www.zerust.com