

ZERUST® ICT® SDA Advanced VCI Film

ZERUST®/EXCOR® ICT® SDA Advanced VCI Film is a premium corrosion-inhibiting packaging product for use in extreme long-term storage and challenging conditions. When properly packed and sealed, it protects metals in contaminated acid gas and marine environments.

This premium film combines ZERUST® Volatile Corrosion Inhibitor (VCI) chemistry with a unique oxygen and gas-blocking property. This patented technology is only available from ZERUST® and gives the film the ability to protect metals from the causes of corrosion for years beyond traditional packaging products. The combination of VCI and gas barrier work together to comprehensively protect against the elements that cause corrosion. The Advanced film packaging must be tightly closed and heat-sealed for long-term protection applications.

ZERUST®/EXCOR® SDA Advanced Film VCI bags are up to 10 times more effective at blocking gases that cause corrosion and reduce VCI effectiveness than traditional poly bags. This product is the latest in the legacy of ZERUST® packaging technology. ZERUST® is the inventor of poly VCI technology, and ZERUST® VCI film has proven its performance and safety* with thousands of customers worldwide for nearly 50 years. In addition, ZERUST®/EXCOR® offers on-site support and service in more than 70 countries via a network of 21 joint venture partnerships.

Application Example

Critical tools are packed and heat-sealed in ZERUST®/EXCOR® SDA Advanced VCI Film Bags for overseas shipping to remote job sites.





Benefits

Superior corrosion protection

Exclusive patented technology

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

Extreme long-term protection

Suitable for vacuum sealing

Provides safe* and effective ZERUST® VCI protection.

Recyclable

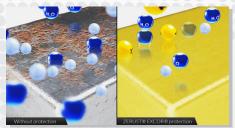
Application Type

Storage in contaminated environments Long-term mothball storage Shipping and overseas shipping Work in progress near acids/chlorides

*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® ICT® SDA Advanced 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	Available in ferrous, multimetal, 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®540-SDA Advanced Film*	Standard VCI Film	ASTM Test Method	
Film Thickness	-	4 mil (100 μm)	4 mil (100 μm)	D-6988	
Dart Impact Resistance	-	340 g	300 g	D-1709	
Tear Strength	MD	320 gf (3.14 N)	290 gf (2.85 N)	D-1938	
	TD	460 gf (4.51 N)	350 gf (3.40 N)		
Tensile Strength at Yield	MD	2450 psi (16.9 MPa)	1905 psi (13.1 MPa)	D 003	
	TD	2380 psi (16.4 MPa)	1538 psi (10.6 MPa)	D-882	
Tensile Strength at Break	MD	2900 psi (20.1 MPa)	3045 psi (21.0 MPa)	D-882	
	TD	2550 psi (17.6 MPa)	2917 psi (20.1 MPa)	D-00Z	
Elongation at Break	MD	480%	560%	D-882	
	TD	430%	610%		
Elmendorf Tear	MD	540 gf	220 gf	D-1922	
	TD	270 gf	290 gf		
Water Vapor Transmission Rate	-	0.18 g/(100 in²/day) @100°F (38°C), 100% RH	0.24 g/(100 in²/day) @100°F (38°C), 100% RH	F-1249	
Vapor Inhibiting Ability (VIA)	-	Pass	Pass	NACE TM0208	

* Typical values, not meant to be a specification.

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Availability

ZERUST®/EXCOR® ICT®540-SDA Advanced VCI Film is available in many custom additive options such as UV and Anti Static. Contact your 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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