

# 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.

## 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

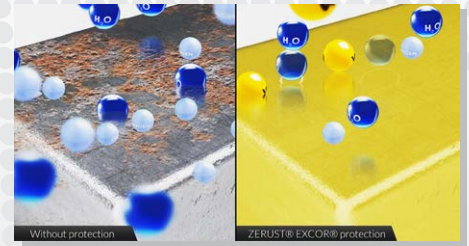
- Superior corrosion protection
- Exclusive patented technology
- Metals are ready for use and assembly directly out of the packaging
- Extreme long-term protection
- Provides safe\* and effective Zerust VCI protection.
- Recyclable

## 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 WHIMS regulations.

## Product Information



<b>Description</b>	Zerust®/Excor® ICT® SDA Advanced VCI Film is a polyethylene product impregnated with volatile corrosion inhibitors.
<b>Appearance</b>	Typical colors are clear, yellow or green. Additional colors available upon request. Subject to order minimums.
<b>Metal Protection Types</b>	Available in ferrous, multimetals and non-ferrous protection formulations.
<b>Protection Life</b>	Protects clean metals for years when used correctly and utilized within three years from receipt.
<b>Storage</b>	Store in original packaging away from direct sunlight in conditions below 85°F (30°C) and 50% RH until ready for use.

Property	Direction (Machine or Transverse)	Zerust ICT540-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-882
	TD	2380 psi (16.4 MPa)	1538 psi (10.6 MPa)	
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)	
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 in <sup>2</sup> /day) @100°F (38°C), 100% RH	0.24 g/(100 in <sup>2</sup> /day) @100°F (38°C), 100% RH	F-1249
Vapor Inhibiting Ability (VIA)	-	Pass	Pass	NACE TM0208-2013

\* Typical values, not meant to be a specification.

## Availability

Zerust/Excor ICT540-SDA Advanced VCI Film is available in many custom options.

### 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 WHIMS 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 of package.

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