

Zerust® ICT®520-HS VCI Film

Zerust®/Excor® ICT®520-HS Film is a special, lightweight and durable VCI film made with patented Zerust Integrated Corrosion Technologies® (ICT®) that provides robust and powerful corrosion protection as well as physical protection from the environment.

Zerust ICT520-HS High-Strength VCI Film is less likely to puncture or tear compared with traditional polyethylene film, so it is especially suited for applications that have demanding corrosion protection requirements. Use to protect export shipments, and items that are heavy or with rough edges. Zerust ICT520-HS Film is available in ferrous, non-ferrous and multimetal corrosion protection formulations. Zerust High-strength VCI film is also available with flame retardant properties by special order.

Zerust VCI packaging film diffuses proprietary Zerust VCIs (Vapor Corrosion Inhibitors) to protect metals for years. For additional protection and for use in challenging environments, packaging may 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/Excor offers onsite support and service using our local partners in more than 60 countries.

Application Example

Zerust VCI high-strength packaging film surrounds and protects auto frames from corrosion during overseas shipping.



Benefits

Effective corrosion protection and packaging combined in one step

High strength for increased durability

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 WHIMS regulations.

Product Information



Description	Zerust® ICT®520-HS VCI Film is a high-strength polyethylene product impregnated with vapor corrosion inhibitors.
Appearance	Typical colors are clear, yellow or green. Additional colors available upon request. Subject to order minimums.
Protection Life	Protects clean metals for years when used correctly and utilized within three years from receipt.
Storage	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 High-Strength Film*	Zerust ICT510-C Film	ASTM Test Method
Film Thickness	-	4 mil (100 µm)	4mil (100 µm)	D-6988
Dart Impact Resistance	-	> 450 g	300 g	D-1709
Tear Strength	MD	1.8 lb-f (7.9 N)	0.60 lb-f (2.7 N)	D-1938
	TD	2.4 lb-f (10.7 N)	0.65 lb-f (2.9 N)	
Tensile Strength at Yield	MD	1920 psi (13.2 MPa)	1905 psi (13.1 MPa)	D-882
	TD	2156 psi (14.9 MPa)	1538 psi (10.6 MPa)	
Tensile Strength at Break	MD	5242 psi (36.1 MPa)	3045 psi (21.0 MPa)	D-882
	TD	5371 psi (37.0 MPa)	2917 psi (20.1 MPa)	
Elongation at Break	MD	775%	560%	D-882
	TD	800%	610%	
Breaking Factor	MD	21.27 lb-f/in (3725 N/m)	11.0 lb-f/in (1926 N/m)	D-882
	TD	21.32 lb-f/in (3733 N/m)	11.5 lb-f/in (2014 N/m)	
Water Vapor Transmission Rate (normalized to 1 mil)	-	0.16 g/(100 in ² /day) @78°F (26°C), 90% RH	0.24 g/(100 in ² /day) @78°F (26°C), 90% RH	F-1249
Vapor Inhibitor Ability (VIA)	-	Pass	Pass	NACE TM0208-2013

* Typical values, not meant to be a specification.

Warranty and Disclaimer Information: We guarantee our products conform to documented quality specifications. Product information subject to change without notice. We make no warranty of any kind expressed or implied as to the effects of use (including, but not limited to, damage or injury). For full warranty and disclaimer information visit, www.zerust.com/warranty.

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Contact Us



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

Availability

Zerust/Excor® ICT520-HS Film is available in many sizes and options. 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 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.

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