

ZERUST® ICT®520-HS VCI Film

ZERUST®/EXCOR® ICT®520-HS Film is a special, lightweight, and durable packaging film made with patented ZERUST® volatile corrosion inhibitor (VCI) that provides robust and powerful corrosion protection as well as physical protection from the environment.

ZERUST® ICT®520-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® ICT®520-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 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 on-site support and service in more than 70 countries via a network of 21 joint venture partnerships.

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 WHMIS 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 are available upon request. Subject to order minimums.

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.

Availability

ZERUST®/EXCOR® ICT®520-HS Film is available in many sizes and additive options such as UV and Anti Static. Contact a ZERUST® account manager for pricing and availability.

Size Range (width):

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

Property	Direction (Machine or Transverse)	ZERUST® High-Strength Film*	ZERUST® ICT®510-C Film	ASTM Test Method
Film Thickness	-	4 mil (100 µm)	4 mil (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 Inhibiting Ability (VIA)	-	Pass	Pass	NACE TM0208

* Typical values, not meant to be a specification.

DECLARATION

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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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