Zerust® ICT®510-C VCI Film provides cost-effective and versatile protection against corrosion damage for ferrous metals in shipping and storage. It protects steel, iron, cast iron and its alloys. It is available in various sized rolls, sheets, tubing and bags.

Zerust® ICT®510-C VCI Film provides 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 shapes and sizes. Provides safe* and effective Zerust® VCI protection.

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 shapes 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.

Application Example

A ferrous Zerust® VCI Film gusseted bag lines a dunnage system to protect precision steel parts from corrosion in shipping.
Product Information

Description
Zerust®/Excor® ICT® 510-C VCI Film is a polyethylene product impregnated with volatile corrosion inhibitors.

Appearance
Typical colors are clear, yellow or green. Additional colors available upon request. Subject to order minimums.

Protected Metal Types
Protects ferrous metals such as steel, iron and its alloys.

Protection Life
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® 510-C VCI Ferrous Film is available in many stock and custom options such as UV and Anti Static additives. Contact a Zerust® account manager for pricing and availability.

Size Range (width):
- Bags & Tubing: 2" - 125" (flat)
- Bags & Tubing: 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 of package.

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 in²/day) | F-1249 |
Vapor Inhibiting Ability (VIA) | - | Pass | NACE TM0208 |

* Typical values, not meant to be a specification.