

# Zerust® ICT®510G4-C Ferrous Film

**TECHNOLOGY THAT PROTECTS METAL FROM CORROSION**

## PRODUCT INFORMATION

Zerust® ICT®510G4-C Ferrous Film is the latest generation of corrosion inhibiting plastic packaging made with a new active formulation that provides more robust rust protection in industrial environments. It offers increased protection when process variability, such as cleaning and hold times before packaging, may lead to variation in yield of rust free parts. The wider margin of protection is based on an evolution in Zerust® technology to meet the toughest industrial, military and international requirements. The film exceeds the requirements of the Grade 4 NACE Test Method 2008-0208, and also VCI test requirements in MIL-PRF-22019. A version of this film is listed on qualified product list QPL-22019. The G4 corrosion inhibiting formulation is non-toxic, odorless and does not contain heavy metals.

### The Problem

Ferrous metals, such as iron and steel, naturally rust in the presence of moisture and air. The speed of this corrosion process may accelerate if the surface of the metal has variable traces of residual corrosive contaminants when cleaning-washing processes vary, due to wash bath age or time of exposure to atmospheric humidity and other contaminants. The result may be a subtle variation in yield of rust-free parts when shipments and stored parts are opened, inspected and used.

### The Solution

Protected with  
ICT®510G4-C



Protected with  
Ordinary VCI



Zerust® ICT®510G4-C shows improvement in rust-free process yields and superior rust protection in lab tests. Testing included exposure of ferrous parts to standard warm humidity chamber environments that meet the ASTM D1735 standard. In general, the effectiveness of Zerust corrosion protection is still subject to the amount and types of corrosive contaminants left on the metal surfaces. We strongly recommend that users ensure that their metal parts are clean and free of corrosive contaminants prior to using Zerust® products.

## FEATURES

- Robust corrosion protection for ferrous metals such as iron, cast iron, and steel
- Easy-to-use
- Non-toxic
- Proven Technology

## BENEFITS

- Reduces financial losses due to rust
- Improves shipment quality yield rates
- Provides corrosion protection even in less than ideal process control manufacturing sites
- Comes with Zerust® global on-site technical support

By preserving your metal parts during storage and shipment, Zerust® ICT® 510G4-C Ferrous Film will help you reduce the need for inspection, rework, scrapping and excess inventory—saving you and your company significant money and resources.



EXPORT  
SHIPMENT



LONG-TERM  
STORAGE



INVENTORY  
STORAGE



WORK  
IN-PROGRESS

**APPLICATION TYPE**

## CORROSION PROTECTION FOR:



# ORDERING INFORMATION

## CONFIGURATIONS

Bags (flat & gusset), tubing, sheeting

## SIZE RANGE (WIDTH)

Bags & tubing:

2" - 125" (flat)

2" - 150" (gusset)

Sheeting: 2" - 26'

## THICKNESS

1-8 mil

## COLOR

Yellow is the standard color for Zerust® ICT®510G4-C Ferrous Film.

## PROTECTION TYPE

Ferrous corrosion protection capability (steel, iron, cast iron). UV, anti-static, and other additional protection options available upon request.

## CORROSION PROTECTION LIFE

Will provide rust protection for clean ferrous metals for up to five (5) years if prepared, packed and stored in a dry shelter away from direct sunlight and rain.

## SHELF LIFE

Shelf life of 2 years if stored at 85° F or less, out of direct sunlight and in original packaging.

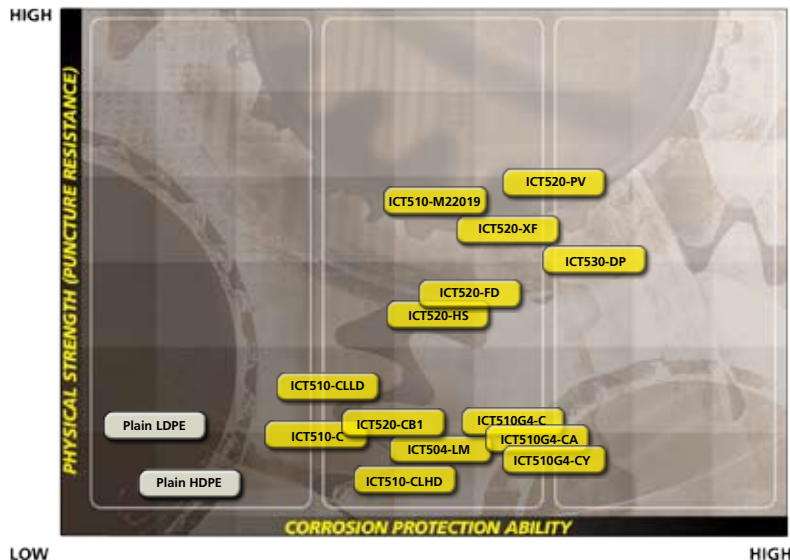
## QUESTIONS?

Please contact a Customer Service Representative at +1 (763) 225-6600 or email [sales@zerust.com](mailto:sales@zerust.com).

**ZERUST® EXCOR®**

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## ICT® 500 SERIES OVERVIEW: PACKAGING FILM PRODUCTS



## Frequently Asked Questions

### Will Zerust® ICT®510G4-C still work if the packaging material has small punctures or tears?

Zerust® ICT®510G4-C provides corrosion protection due to the volatile corrosion inhibitor (VCI) formulation impregnated into the plastic during manufacture. While small holes and tears should not significantly impair the VCI protection, it is always best maintain the integrity of the packaging. If holes or tears are detected, it is recommended that either these are sealed with plastic tape or that the entire Zerust® ICT®510G4-C packaging is replaced.

### What actions should be taken in order to maximize the rust protection performance of Zerust® ICT®510G4-C?

Zerust® ICT®510G4-C provides robust corrosion protection for ferrous metals. It is always

recommended to ensure all metal parts are properly cleaned and dried before packing them in Zerust® ICT®510G4-C. Always wear clean, lint-free gloves when handling metal, and never touch metal surfaces with bare skin. Seal the Zerust® ICT®510G4-C packaging as quickly as possible after packing. Store the sealed package in a dry shelter away from direct sunlight and rain.

### How long can Zerust® ICT®510G4-C protect metal from corrosion?

Clean, properly packed and stored metals can be protected from corrosion by Zerust® ICT®510G4-C for up to five (5) years. In order to ensure maximum effectiveness, please contact a Zerust® representative to help you design the appropriate corrosion protection system for your needs.

## OTHER PRODUCTS AVAILABLE

### ICT® 700 Series: Liquid Additives and Coatings

Temporary corrosion protection for parts in-between production processes, during storage or for added protection to the ICT® 500 series products during ocean shipments.

### ICT® 800 Series: Diffusers

Self-contained, portable products that diffuse Zerust® ICT® chemicals to protect metals within enclosures, such as tool boxes, electrical boxes, etc.

