

# Zerust® ICT®510-C Film Reduces Corrosion Risk

## NTIC Laboratories Support Our Clients Around The World.



Zerust® ICT®510-C is engineered with a combination of VCI chemistries to provide optimum corrosion protection for ferrous metals. Other VCI companies only offer multimetal formulations.

### Corrosion Key

Grade	Description
A	No Visible Corrosion
B	Very Light Corrosion <5%
C	Light Corrosion 5% -10%
D	Moderate Corrosion 10% – 25%
E	Severe Corrosion >25%

### Result Zerust® ICT®510-C Film 90 Day Exposure

Sample	Corrosion Grade
Zerust® ICT®510-C	A
Zerust® ICT®510-C	A
Zerust® ICT®510-C	A

### Result Plain Polyethylene Film (Control) Corrosion exhibited after 21 days

Sample	Corrosion Grade
Control	E
Control	E
Control	E

## Objective: Demonstrate corrosion protection efficacy of Zerust® ICT®510-C Ferrous VCI Film for clean and dry ferrous metals

### Test Method:

Recognized ASTM D1735 High Humidity Environmental Conditions, 98 to 100% RH and 38 ± 2°C (100 ± 4°F)

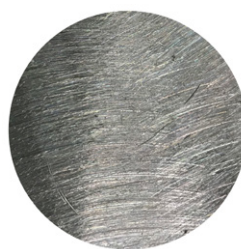
### Metal Specimen:

Metal - 1.5" diameter, ¼ thick 1010 steel disks

### Metal Preparation:

Steel disks were abraded with aluminum oxide abrasive paper, then successively cleaned using mineral spirits and ethanol

**A**



**B**

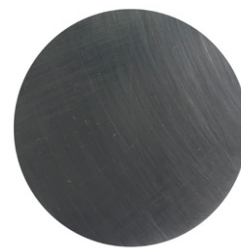


Figure 1 - Photo A shows "as received metal surface"; Photo B shows steel disk after polishing and cleaning

### Polished and cleaned steel disks were heat-sealed in various 4 mil bags and placed in a humidity test chamber.

- Zerust® ICT®510-C Ferrous VCI film
- Plain polyethylene (control - no VCI)



Figure 2 - As packaged and tested in Zerust® ICT®510-C Ferrous bags, 90-day humidity exposure result; No Visible Corrosion



Figure 3 - As packaged and tested in plain polyethylene bags, Corrosion developed within 21 days of humidity exposure.