

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 **Vapor Corrosion Inhibitor (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

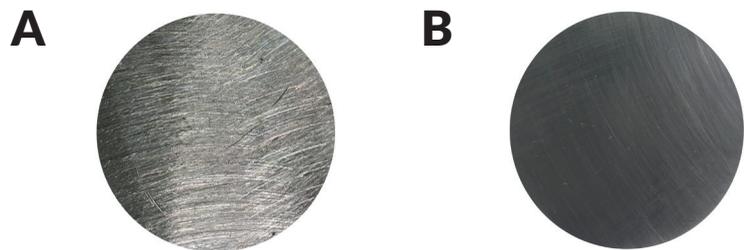


Figure 1 - Photo A shows "as received metal surface"; Photo B shows steel disk after polishing and cleaning

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.