



- 4119 White Bear Parkway, St. Paul, MN 55110 USA
- Phone (651) 429-1100, Fax (651) 429-1122
- Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
- Internet http://www.cortecvci.com

Evaluation of Zerust Film

Purpose: To test for VCI properties of the submitted green film, which was manufactured by Zerust.

Materials: Submitted sample of Zerust green film (3.5mil)
 Razor Blade Test Kit
 VIA Test Kit
 Perkin Elmer FT-IR 1000 Spectrometer
 EM Quant Nitrite/Nitrate Test strips (Lot # OC555062, Exp 9/08)

Method: Razor Blade Test
 VIA Test
 FT-IR Analysis
 Nitrite Test

Procedure: The above tests were performed according to the standard procedures for each

Results: Razor Blade Test (carbon steel)

Material	Panel #1	Panel #2	Panel #3
Submitted sample of Zerust green film (3.5mil)	Pass	Pass	Pass
*Cortec's VpCI-126 film (3.5mils)	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted sample of Zerust green film (3.5mil)	Grade 2	Grade 1	Grade 1
*Cortec's VpCI-126 film (3.5mils)	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results

Nitrite Test: The submitted film contains a small amount of nitrite on both sides of the film.

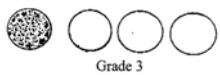
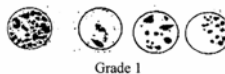
Conclusion: The submitted green film, which was produced by Zerust, passed the razor blade but did not pass the VIA test. When compared to Cortec's film though, VpCI-126 film performs far better than the green Zerust film.



Project #: 07-117-1125

VIA Test Grades (Grade 2 or 3 are passing)

- Grade 0: Blind test
No corrosion inhibiting effect
- Grade 1: Blind test
Minute corrosion inhibiting effect
- Grade 2: Blind test
Medium corrosion inhibiting effect
- Grade 3: Blind test
Good corrosion inhibiting effect



FTIR Analysis Zerust Film

