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Evaluation of Zerust Film

Purpose: To test the VCI properties of the submitted Zerust film, and compare to VpCI-126 film

Materials: Submitted Zerust Film
 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)

Sample Material	Panel #1	Panel #2	Panel #3
yellow Zerust film	Pass	Pass	Pass
Typical results for VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Sample Material	Plug #1	Plug #2	Plug #3
yellow Zerust film	Grade 1	Grade 1	Grade 2
Typical results for VpCI-126 film	Grade 3	Grade 3	Grade 3
Control	Grade 0		

Nitrite Test: the Zerust film contains a heavy amount of nitrite on both sides

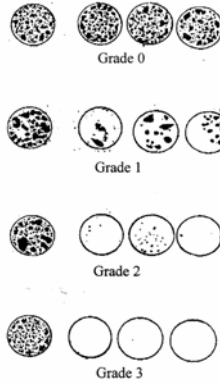
Conclusion: The submitted Zerust film doesn't have any VCI properties. Based on FT-IR this film contains nitrite as a major ingredient and no other ingredients were found..

Project #: 08-191-1125



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



FT-IR Analysis

