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Evaluation of Zerust Film

Purpose: To test VCI properties of submitted yellow manufactured by Zerust.

Materials: Submitted yellow film from Zerust
 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 yellow film from Zerust	Pass	Pass	Pass
Control	Fail	Fail	Fail

Razor Blade Test (copper)

Material	Panel #1	Panel #2	Panel #3
Submitted yellow film from Zerust	Fail	Fail	Fail
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted yellow film from Zerust	Grade 2	Grade 2	Grade 2
Control	Fail	Fail	Fail

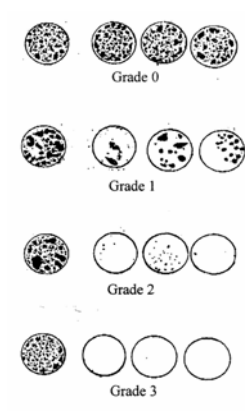
Nitrite Test: The submitted yellow film contains nitrite on both sides of the film.

Conclusion: The submitted yellow film, produced by Zerust, passed the VIA test and razor blade test for carbon steel, but not the razor blade test for copper. The film has medium corrosion inhibiting effect and only protects ferrous metals.



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

Submitted yellow film

