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Evaluation of Daubert's Clear VCI Film

- Purpose:** To test the VCI properties of the submitted clear film, which was manufactured by Daubert.
- Materials:** Submitted sample of Daubert's clear VCI film (3.75mil)
 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 Daubert's clear VCI film	Pass	Pass	Pass
Typical results for VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

Razor Blade Test (copper)

Material	Panel #1	Panel #2	Panel #3
Submitted sample of Daubert's clear VCI film	Fail	Fail	Fail
Typical results for VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted sample of Daubert's clear VCI film	Grade 2	Grade 2	Grade 1
Typical results for VpCI-126 film	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

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

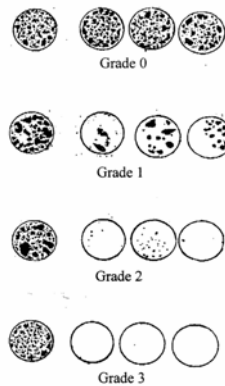


Conclusion: The submitted film contains a significant amount of nitrite. This film provides some corrosion protection to ferrous metals but doesn't provide multimetal protection.

Project #: 07-132-1125

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

Daubert's Clear VCI Film

