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Evaluation of Admiral Steel Film

Purpose: To check the VCI properties of the submitted blue film, which is manufactured by Admiral Steel.

Materials: Submitted sample of Admiral Steel 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)

Material	Panel #1	Panel #2	Panel #3
Submitted sample of Admiral Steel film	Pass	Pass	Fail
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted sample of Admiral Steel film	Grade 1	Grade 1	Grade 1
Control	Fail	Fail	Fail

Nitrite Test: The submitted film contains a small amount of nitrite on the 'lighter' colored side of the film.

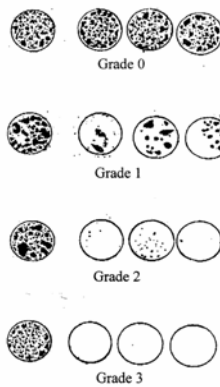
Conclusion: The submitted film passed the razor blade test but did not pass the VIA test, so the film has poor vapor phase corrosion protection. Based on the FT-IR spectra, this film doesn't contain significant amount of corrosion inhibitors, if any.



Project #: 07-070-1125

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

