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Evaluation of NTI Film

Background: The submitted sample is NTI film for GMPT Warren. The film was found to be priced very low and it is not known why.

Purpose: To test the submitted film for VCI properties.

Materials: Razor Blade Test Kit
 VIA Test Kit
 EM Quant Nitrite/Nitrate test (Lot OC405590, Exp 9/2007)
 Perkin Elmer Paragon 1000 FT-IR Spectrometer
 Submitted clear film

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

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

Results:

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted NTI film (1.5mil)	Grade 0	Grade 0	Grade 1
Control	Fail	Fail	Fail

Razor Blade Test (carbon steel)

Material	Panel #1	Panel #2	Panel #3
Submitted NTI film (1.5mil)	Fail	Fail	Fail
Control	Fail	Fail	Fail

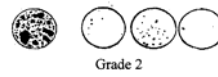
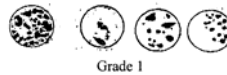
Conclusion: The submitted NTI film failed to pass the VIA and razor blade test. This film does not have effective corrosion inhibiting properties, which is probably why it was found at such a low price.

Project #: 06-091-1125



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

