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Evaluating used Daubert films submitted by the customer

Background: Monica Tarragona/Atlas Industrial submitted three used Daubert films. The films were purchased by the customer. Customer is having failures using the three submitted films.

Purpose: Evaluate the corrosion inhibition performance of submitted films.

Method: Razor Blade Test
VIA Test
SO₂ Test
FT-IR

Materials: Razor Blade Test Kit
VIA Test Kit
SO₂ Test Kit
Green colored Daubert film (bag)
Blue colored Daubert film (sheet)
Blue colored Daubert film (bag)

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Green colored Daubert film labeled as bag (4 mil)	Fail	Fail	Pass
Blue colored Daubert film labeled as bag (3 mil)	Fail	Fail	Fail
Blue colored Daubert film labeled as sheet (2 mil)	Fail	Fail	Fail
Cortec VpCI-126 film*	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

VIA Test

Material	Plug #1	Plug #2	Plug #3
Green colored Daubert film labeled as bag (4 mil)	Grade 1	Grade 2	Grade 2
Blue colored Daubert film labeled as bag (3 mil)	Grade 1	Grade 1	Grade 1
Blue colored Daubert film labeled as sheet (2 mil)	Grade 0	Grade 0	Grade 0
Cortec VpCI-126 film*	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

SO₂ Test

Material	Panel #1	Panel #2	Panel #3
Green colored Daubert film labeled as bag (4 mil)	Grade 1	Grade 1	Grade 1
Blue colored Daubert film labeled as bag (3 mil)	Grade 1	Grade 0	Grade 1
Blue colored Daubert film labeled as sheet (2 mil)	Grade 1	Grade 1	Grade 1
Cortec VpCI-126 film*	Grade 4	Grade 4	Grade 4
Control	Fail	Fail	Fail

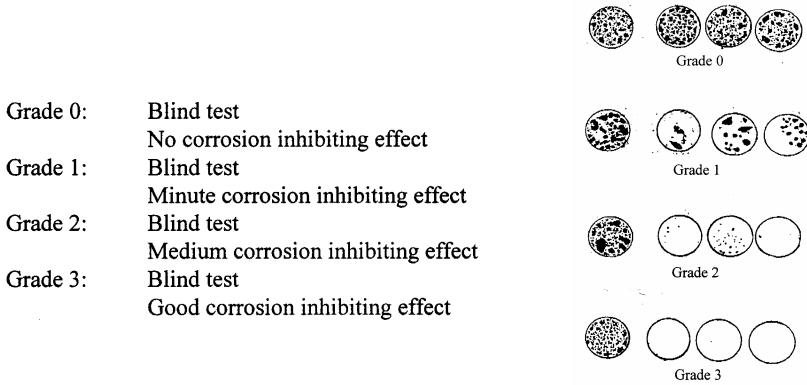
*Typical results for Cortec VpCI-126 film



Conclusion: The three submitted films do not provide sufficient corrosion inhibition. Analytical chemistry results do not show any of corrosion inhibitors, incorporated in the film.

Project #: 05-164-1125

VIA Test Grades (Grade 2 or 3 are passing)



SO₂ Grades (Grade 3 and 4 are passing):

Grade 0- Extensive corrosion covering 25% or more of panel surface

Grade 1- Moderate corrosion covering 10-25% of panel surface

Grade 2- Slight corrosion covering 5-10% of panel surface

Grade 3- Very slight corrosion covering 0-5% of panel surface

Grade 4- No visible corrosion on panel surface

