



4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone: (651) 429-1100, Fax: (651) 429-1122
Toll Free: (800) 4-CORTEC, E-mail: info@cortecvci.com
cortecvci.com • corteclaboratories.com

Evaluation of Daubert Film

From: Cortec Corporation Laboratories
4119 White Bear Parkway
St. Paul, MN 55110

cc: Boris Miksic
Anna Vignetti
Mike Gabor

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Test conducted by:

Liz Austin
Sr. Lab Technician

Approved by:

Margarita Kharshan
Laboratory Director



Background: Customer requested that the Daubert film be tested to determine if it is an effective corrosion inhibitor.

Sample Received: Daubert blue film (unlabeled), received 08-23-11, good condition

Method:

- 1) VIA Test CC-027
- 2) Razor Blade Test CC-004
- 3) FTIR Test CC-006

Materials:

- 1) VIA test kit
- 2) Razor Blade test kit
- 3) Perkin Elmer Paragon 1000 Spectrophotometer

Procedure: The tests were conducted according to standard procedures for each test.

Results:

Razor Blade Test - Carbon Steel Panels

Sample	Panel 1	Panel 2	Panel 3
Daubert Film	Fail	Fail	Fail
Control	Fail	-	-

Razor Blade Test - Copper Panels

Sample	Panel 1	Panel 2	Panel 3
Daubert Film	Fail	Fail	Fail
Control	Fail	-	-

VIA Test

Sample	Plug #1	Plug #2	Plug #3
Daubert Film	Grade 0	Grade 0	Grade 1
Control	Grade 0	-	-

Note: The VIA grading system is attached to the end of the report.

Interpretations:

1. Based on the razor blade test results, the Daubert film did not provide sufficient contact-phase corrosion protection for carbon steel and copper.
2. The VIA test results determined that the Daubert film did not provide vapor-phase corrosion inhibition.
3. Based on the FT-IR results, the Daubert film doesn't contain a sufficient amount of corrosion inhibitors.

VIA Grading System, Grade 2 and above is passing

Picture A.2

- 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



