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# Evaluation of Daubert Film

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**Project** #: 12-115-1125(bis)

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**Background:** Mike Gabor requested that the submitted Daubert film sample be evaluated and compared to VpCI-126

**Sample Received:** 4 mil Premium Metal Guard VCI bags, received 05-14-12, good condition, labeled Daubert Cromwell 4 mil Premium Metal guard VCI bags

#### **Method:**

- 1) VIA Test CC-027
- 2) Razor Blade Test CC-004\*
- 3) FTIR Test CC-006
- 4) Nitrite Test\*

\*Cortec Laboratory is not accredited for the test marked

## **Materials:**

- 1) VIA test kit
- 2) Razor Blade test kit
- 3) Paragon 1000 FTIR
- 4) Nitrite/Nitrate Test Strips
- 5) VpCI-126 4 mil, Batch# 31957

#### **Procedure:**

1) The above tests were performed according to standard procedures.

#### **Results:**

#### **Razor Blade Carbon Steel**

Sample	Panel 1	Panel 2	Panel 3
Daubert Cromwell Premium Metal	Pass	Pass	Pass
Guard			
VpCI-126	Pass	Pass	Pass
Control	Fail	1	-

### **Razor Blade Copper**

Sample	Panel 1	Panel 2	Panel 3
Daubert Cromwell Premium Metal Guard	Fail	Fail	Pass
VpCI-126	Pass	Pass	Pass
Control	Fail	-	-

#### **VIA Test Results**

Sample	Plug #1	Plug#2	Plug#3	Pass/Fail
Daubert Cromwell Premium Metal Guard	Grade 1	Grade 1	Grade 3	Fail
VpCI-126	Grade 2	Grade 2	Grade 3	Pass
Control	Grade 0	-	-	-

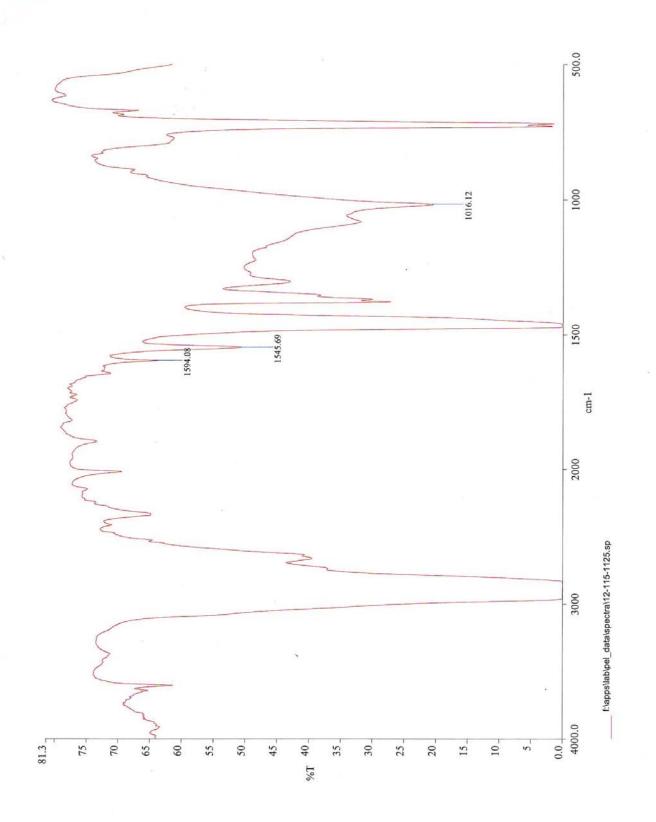
Note: The VIA grading system is attached to the end of the report

# **Interpretations:**

- 1) Based on the test results, the Daubert Cromwell Premium Metal Guard provides contact-phase corrosion protection for carbon steel, but not for copper. The VIA test results determined that the film did not provide vapor-phase corrosion inhibition. The film was found to contain nitrite.
- 2) The test results determined that the VpCI-126 provided good contact and vaporphase corrosion protection.

VIA Test Grades (Grade 2 or 3 are passing)

		Grade 0
Grade 0:	Blind test No corrosion inhibiting effect	
Grade 1:	Blind test	Grade I
	Minute corrosion inhibiting effect	
Grade 2:	Blind test	
0 1 2	Medium corrosion inhibiting effect	Grade 2
Grade 3:	Blind test	
	Good corrosion inhibiting effect	
		Grade 3



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