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Comparing Submitted Film with Cortec VpCI Film

To: Customer

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Project #: 17-228-1125.bis

Results reported by:

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Approved by:

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Background:

The customer operates worldwide in the electrical engineering, power, and automation technology industries. They produce a variety of equipment including electrical motors, turbines, and transformers. The customer is currently using VCI film manufactured by Daubert to protect their rotors and coils for electric motors. Our customer is looking to supply VpCI-126 to their customer for protection of their assets and is looking to compare the current VCI film with VpCI-126.

Sample Received: 11-6-17
One piece of VCI film
Sample received in good condition

Method: VIA Test, CC-027
Razor Blade Test, CC-004*
*Cortec Laboratories, Inc. is not accredited for the test(s) mark

Materials: Oven Set for 40°C (#10)
VIA test kit
Razor blade test kit
VIA solution, Lot # M31D003
VpCI-126 film
Methanol, ACS grade (lot #032916C)

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

Results:

VIA Test

Sample	Plug #1	Plug #2	Plug #3	End Result
VpCI-126	2	3	2	Pass
Submitted film	0	0	3	Fail
Control	0	-	-	Fail

Razor Blade Test- Carbon Steel Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
VpCI-126	Pass	Pass	Pass	Pass
Submitted film	Fail	Fail	Pass	Fail
Control	Fail	-	-	Fail

Razor Blade Test-Copper Panel

Sample	Panel #1	Panel #2	Panel #3	End result
VpCI-126	Fail	Pass	Pass	Pass
Submitted film	Pass	Fail	Pass	Pass

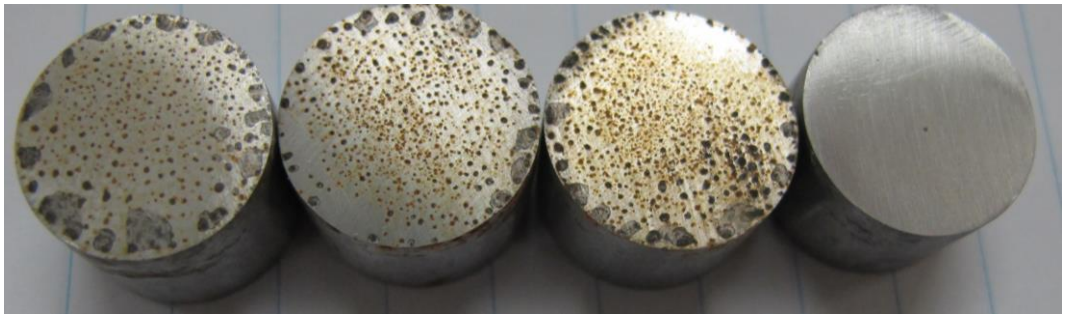
Control	Fail	-	-	Fail

Photos

VpCI-126

Control **Plug #1** **Plug #2** **Plug #3**

Submitted Film



Control **Plug #1** **Plug #2** **Plug #3**

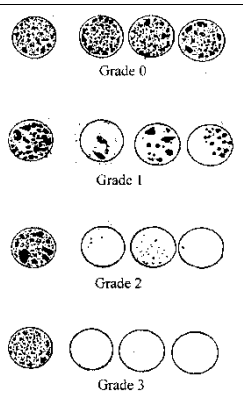
<u>VIA Test Grading</u>
All three plugs must be grade 2 or better to pass the test

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



Interpretations:

Both the VpCI-126 and the submitted Daubert film provided contact corrosion protection on copper. The Daubert film, however, did not provide adequate contact corrosion protection on the carbon steel or adequate vapor phase corrosion protection during the VIA test. VpCI-126 film does provide good protection in the VIA and carbon steel contact corrosion tests.