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Evaluation of Orvic Film

To: Customer

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Project #: 17-225-1125.bis

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Background: 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 a VCI film manufactured by Orvic to protect their rotors and coils for electric motors. Corr Solutions Brazil is looking to supply VpCI-126 film to the customer for protection of their assets and is looking to compare the current

Orvic film with VpCI-126 film.

Sample Received: Blue Orvic film, 6mils, received on 11-3-17 in good condition.

Method: VIA Test, CC-027

Razor Blade Test, CC-004*

*The test(s) marked are not covered under Cortec Laboratories, Inc. ISO

17025 Scope of Accreditation

Materials: VIA test kit

Razor blade test kit Glycerol (lot #Q10A018)

VpCI-126 film, 3mils (batch #510220) Methanol, ACS grade (lot #032916C)

Oven set for 40°C (oven #10) Plain polyethylene film (control film)

Procedure: The testing was conducted according to standard procedures for each test.

Note- VIA tests were conducted using two strips of sample per jar (1" X 6" per strip)

Results:

Razor Blade Test- Carbon Steel Panels

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

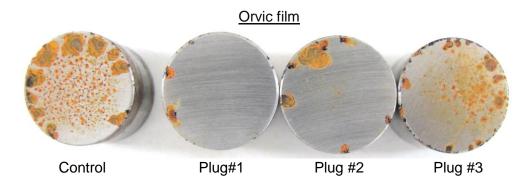
Razor Blade Test- Copper Panels

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

VIA Test

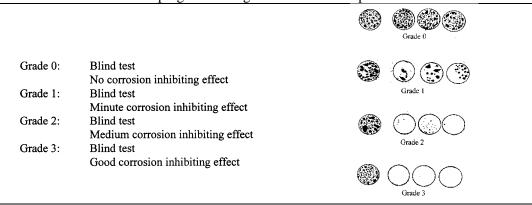
Sample	Plug #1	Plug #2	Plug #3	End Result
ORVIC film	Grade 1	Grade 1	Grade 1	Fail
VpCI-126 film	Grade 3	Grade 3	Grade 2	Pass
Control	Grade 0	-	-	Fail

Photos from VIA Testing:





VIA Test Grades (Grade 2 or 3 are passing)
All three plugs must be grade 2 or better to pass the test



Interpretations:

The submitted Orvic film does not provide sufficient vapor phase corrosion protection to pass the VIA test. For contact corrosion protection, the Orvic film passes the razor blade test for steel, but not for copper. In comparison, VpCI-126 film regularly passes the VIA test and razor blade test for both steel and copper.