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Evaluation of Film Used by Magna Power Train, Manufactured by Covertech Fabricating, Inc.

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Project #: 17-107-1125

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Background: Magna Power Train in Vaughan, Ontario sent a sample of film they are

currently using for packaging. The film is made by Covertech Fabricating, Inc. It is claimed to be VCI film. The corrosion inhibiting properties of this

film will be evaluated.

Sample Received: Blue 3.5mil Supreme Packaging Film Bag (24.5" x 15"), received on 6-2-17 in

good condition.

Method: VIA Test, CC-027

Razor Blade Test, CC-004*

Nitrite/Nitrate Test*

*Cortec Laboratories, Inc. is not accredited for the test(s) marked.

Materials: VIA test kit

> Razor blade test kit Glycerol (lot #Q10A018)

Methanol, ACS grade (lot #032916C)

Oven set for 40°C (oven #10)

Nitrite/Nitrate Test Strips (lot #HC553793)

Plain polyethylene film (control film)

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

(Note- VIA test was conducted using 12 square inches of film per quart size jar)

Results:

Razor Blade Test- Carbon Steel Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
Supreme Packaging Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

Razor Blade Test- Copper Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
Supreme Packaging Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

VIA Test

Sample	Plug #1	Plug #2	Plug #3	End Result
Supreme Packaging Film	Grade 1	Grade 1	Grade 1	Fail
Control	Grade 0	-	-	Fail

Nitrite/Nitrate Test Strips

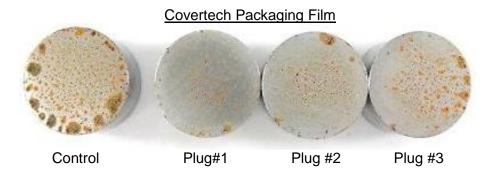
Sample	Results
Supreme Packaging Film	Does not contain any nitrite or nitrates

Interpretations: The film made by Covertech Fabricating does not appear to have any

> active VCI chemistry, based on test results. The film failed to protect from corrosion in vapor phase, per VIA results, and contact (on steel and

copper), per razor blade test results.

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

