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## Evaluation of Rotek Film

To: Customer

From: Cortec Corporation Laboratories

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cc: Boris Miksic

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**Project** #: 14-170-1125.bis

Results reported by:

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Approved by:

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**Date:** August 12, 2014





**Background:** Packaging material with Rotek label on it has been sent in for

corrosion testing to determine VCI content.

**Samples Received:** Rotek film, received on 7-31-14 in good condition

**Method:** VIA Test, CC-027

Razor Blade Test, CC-004\* FTIR analysis, CC-006 Nitrite/Nitrate Test\*

\*Cortec Laboratory is not accredited for the test marked

**Materials:** VIA test kit

Razor blade test kit Paragon 1000 FTIR Nitrite/Nitrate Test Strips

Plain polyethylene film, 2mils (control)

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

#### **Results:**

#### **Razor Blade Test- Carbon Steel Panels**

Film Sample	Panel #1	Panel #2	Panel #3	Pass / Fail
Rotek film	Fail	Fail	Pass	Fail
Control	Fail	-	-	-

**Razor Blade Test- Copper Panels** 

Film Sample	Panel #1	Panel #2	Panel #3	Pass / Fail
Rotek film	Fail	Fail	Pass	Fail
Control	Fail	-	-	-

### **VIA Test**

Film Sample	Plug #1	Plug #2	Plug #3	End Result
Rotek film	Grade 1	Grade 1	Grade 0	Fail
Control	Grade 0	-	1	-

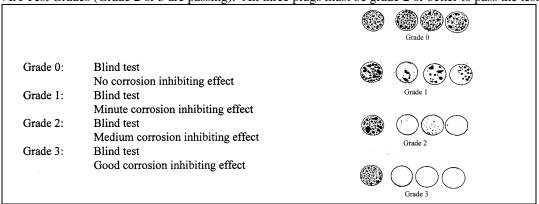
**Interpretations:** The submitted film sample from Rotek does not provide sufficient

corrosion protection to pass the razor blade test or the VIA test.

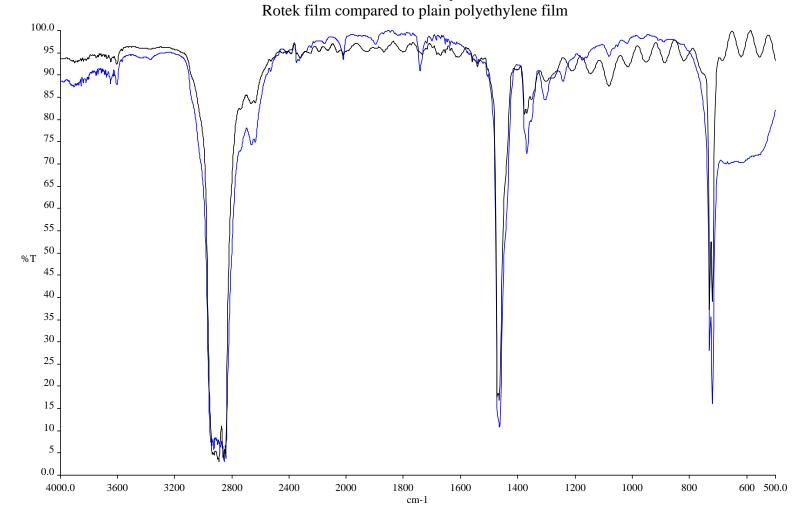
This means that the film doesn't provide contact and vapor phase protection to metals.

This film contains nitrite, no other corrosion inhibitors were found according to the FTIR analysis.

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



# FTIR Analysis



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