



	4119 White Bear Pa Phone: (651) 429-1 Toll Free: (800) 4-C cortecvci.com • cort	arkway, St. Paul, MN 55110 USA 1100, Fax: (651) 429-1122 :ORTEC, E-mail: info@cortecvci.com teclaboratories.com	Certificate # L2
		Evaluation of NTI Film	
	From:	Cortec Corporation Laboratories 4119 White Bear Parkway St.Paul, MN 55110	
	cc:	Boris Miksic Anna Vignetti Mike Morin Bob Boyle Kristy Gillette Jessica Scott	
•	Project	#:11-180-1125(bis)	
	Test co	nducted by:	
		Liz Austin Sr. Lab Technician	
		11 Planta	

ENVIRONMENTAL SPATEM REGISTERED

0

Approved by:

M. Marsha

Margarita Kharshan Laboratory Director

Background: Test submitted NTI film to evaluate if it provides sufficient corrosion protection.

Sample Received: Yellow NTI film, received 08-24-11, good condition

Method:

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

Materials:

- 1) VIA test kit
- 2) Razor Blade test kit
- 3) Perkin Elmer Paragon 1000 Spectrophotometer
- 4) Nitrite/Nitrate test strips, Lot # HC960672

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

Results:

Razor Blade Test-Carbon Steel PanelsSamplePanel 1Panel 2Panel 3NTI FilmPassPassPassControlFail--

Razor Blade Test -Copper Panels

Sample	Panel 1	Panel 2	Panel 3
NTI Film	Fail	Fail	Fail
Control	Fail	-	-

VIA Test

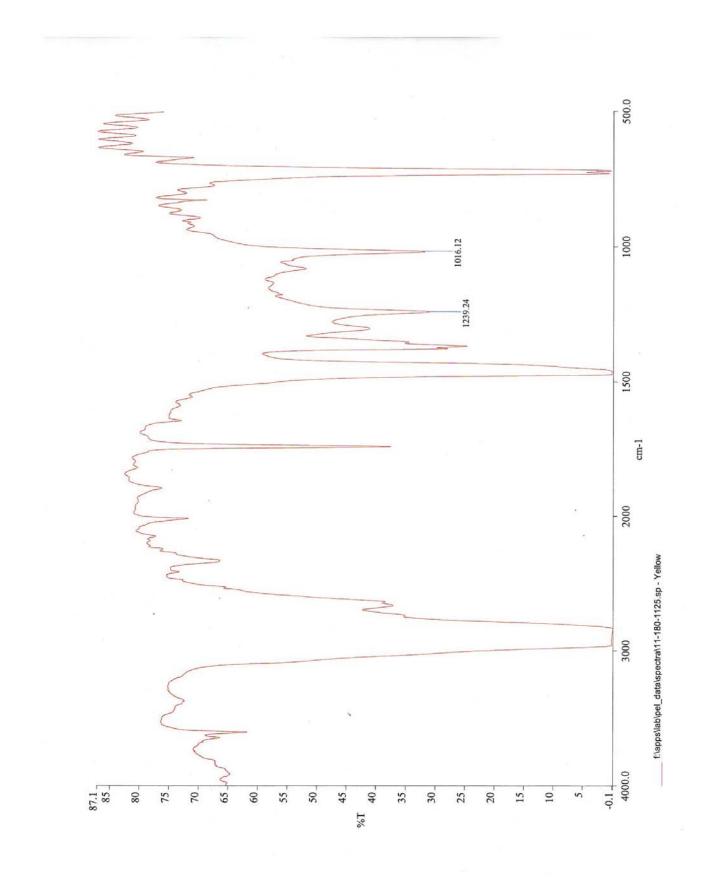
Sample	Plug #1	Plug #2	Plug #3
NTI Film	Grade 2	Grade 2	Grade 2
Control	Grade 0	-	-

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

Nitrite Test				
Sample	Result			
NTI Film	Contains Nitrite			

Interpretations:

- 1. The NTI film was found to be heavily nitrite based.
- 2. Based on the test results the NTI film provides corrosion protection for steel, but doesn't provide multimetal protection (failed copper).



Project #:11-180-1125(bis) Page 3 of 3 September 1, 2011 © 2011, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation Laboratory is strictly prohibited.