

Evaluating Grofit VCI2000 film and Excorr foam

Background: Customer submitted three films to Cortec Corporation. Two of the films are labeled as Grofit VCI2000. The third film is suspected of being a Grofit VCI2000 film. A green colored open cell foam, labeled as Excorr, was also submitted.

Purpose: Evaluate the corrosion inhibition performance of submitted films and foam.

Method: Razor Blade Test
 VIA Test
 FT-IR analysis

Materials: Razor Blade Test Kit
 VIA Test Kit
 Perkin Elmer FT-IR
 Inelca Clear colored Grofit VCI2000 film
 VCI2000 Active Pack film
 (non labeled) suspected Grofit film
 Green colored open cell Foam, “ Excorr”

Procedure: The above tests were performed according to standard procedures for each.

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Inelca Clear colored Grofit VCI2000 film	Fail	Fail	Fail
VCI2000 Active Pack film	Fail	Fail	Fail
(non labeled) Suspected Grofit VCI2000 film	Fail	Fail	Fail
Control	Fail	Fail	Fail

VIA Test

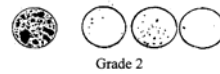
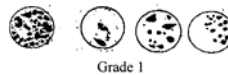
Material	Plug #1	Plug #2	Plug #3
Inelca Clear colored Grofit VCI2000 film	Grade 0	Grade 1	Grade 1
VCI2000 Active Pack film	Grade 0	Grade 1	Grade 1
(non labeled) Suspected Grofit VCI2000 film	Grade 1	Grade 1	Grade 0
Green Colored “Excorr” foam	Grade 0	Grade 0	Grade 0
Control	Fail	Fail	Fail

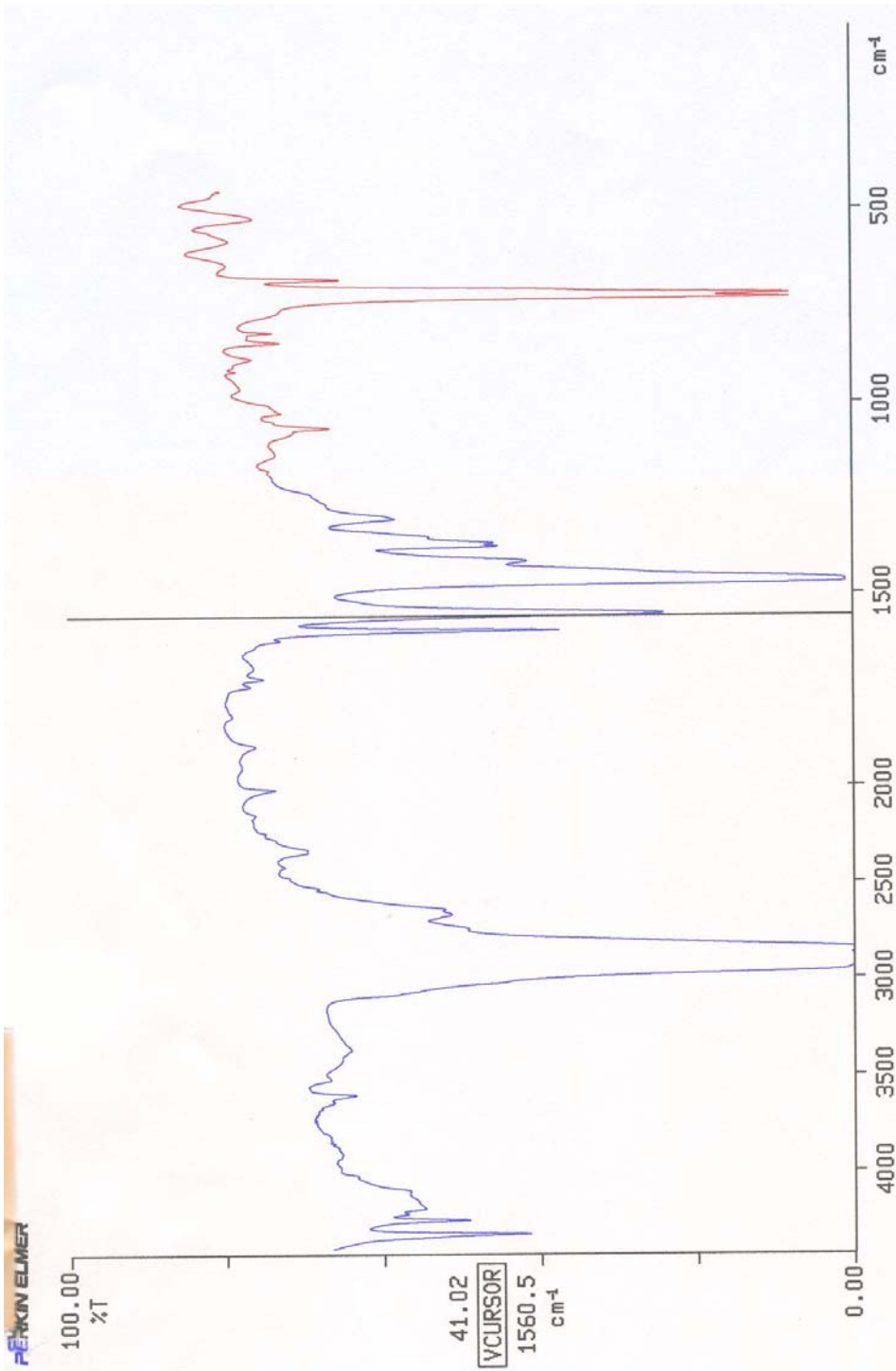
Conclusion: Inelca Clear colored Grofit VCI2000 film, VCI2000 Active Pack film, (non labeled) suspected Grofit VCI2000 film and Green Colored “Excorr” foam do not provide sufficient corrosion inhibition. FT-IR spectrum of (non labeled) suspected Grofit VCI2000 film, does not show any characteristics of the Grofit VCI2000 film.



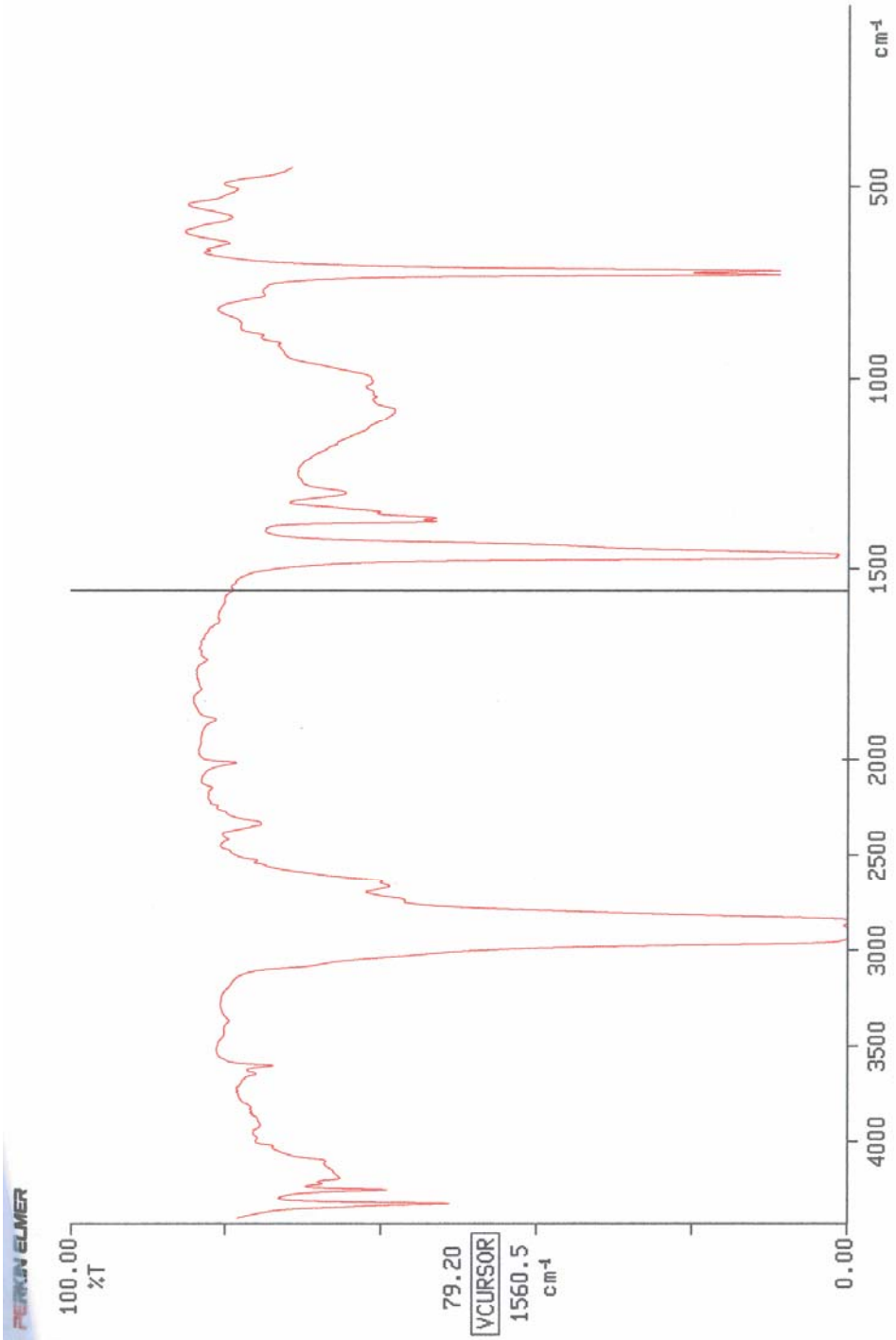
VIA Test Grades (Grade 2 or 3 are passing)

- 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

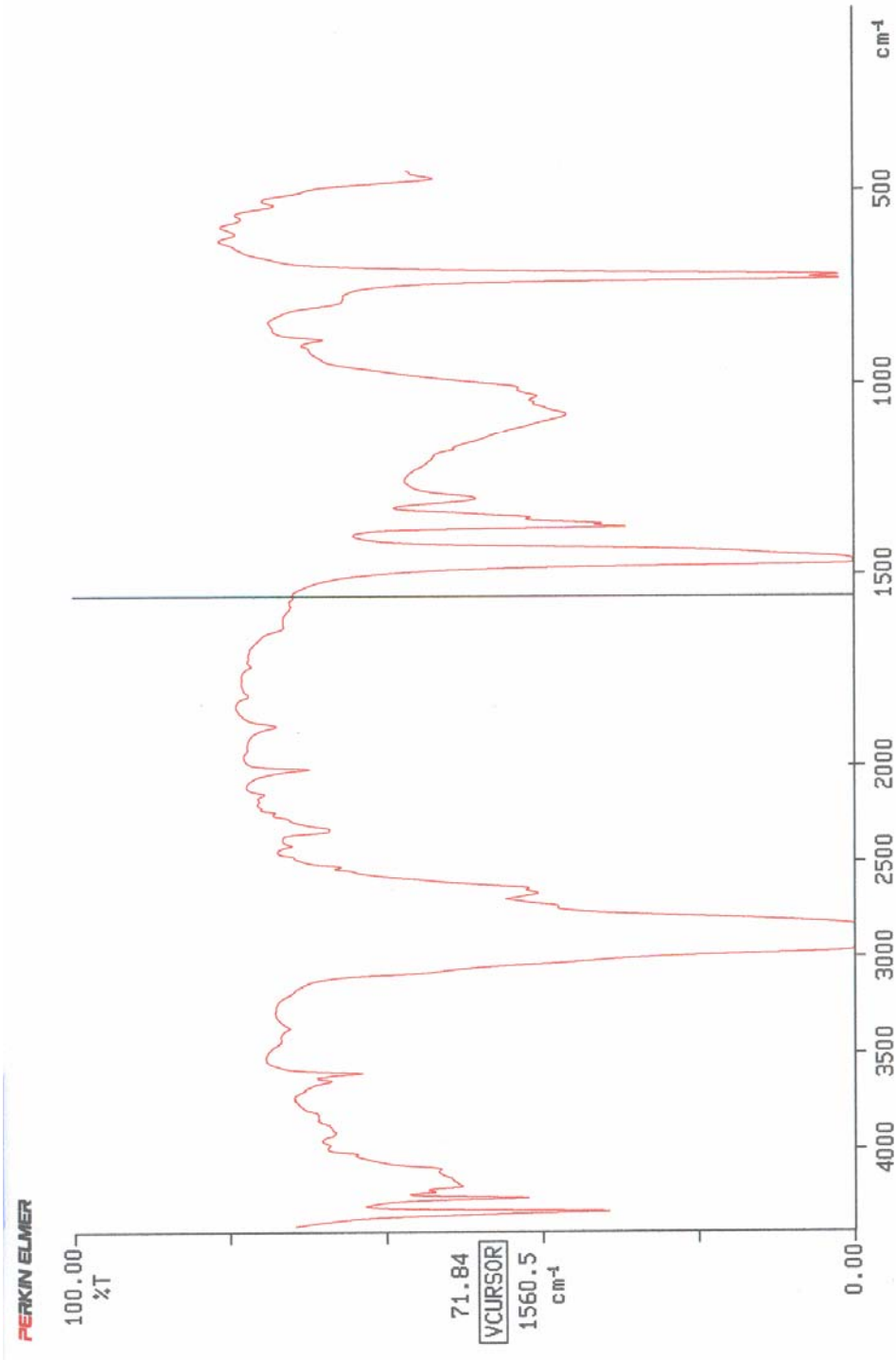




05/06/13 08:34 BRIAN
X: 8 scans, 4.0cm-1
NONLABELED FILM, 05-104-1125



05/06/13 08:26 BRIAN
X: 8 scans, 4.0cm⁻¹
INELCA VCI2000, 05-104-1125



05/06/13 08:30 BRIAN
X: 8 scans, 4.0cm-1
VCI2000 ACTIVE PACK, 05-104-1125