4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
Internet http://www.cortecvci.com

Evaluating the corrosion inhibition of film produced with Cortec M-126 and Excor film

Background: Jesus Orte Crespo/Quimilock S.A. submitted two films to Cortec Corporation. The first film, produced by Quimilock, is co-extruded and contains Cortec M-126 masterbatch. The second film is Excor.

Purpose: Evaluate the corrosion inhibition performance of submitted films

Method: Razor Blade Test
VIA Test
SO_2 Test
Nitrite Test

Materials: Razor Blade Test Kit
VIA Test Kit
SO_2 Test Kit
Co-extruded film constructed with Cortec M-126 masterbatch
ExCor film
EM Quant Nitrite/Nitrate test strips (Lot #OC346275, Exp Sept 06)

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Co-extruded film constructed with Cortec M-126 masterbatch	Pass	Pass	Pass
ExCor film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

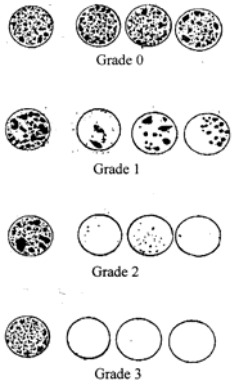
Material	Panel #1	Panel #2	Panel #3
Co-extruded film constructed with Cortec M-126 masterbatch	Grade 3	Grade 3	Grade 3
ExCor film	Grade 2	Grade 2	Grade 3
Control	Fail	Fail	Fail

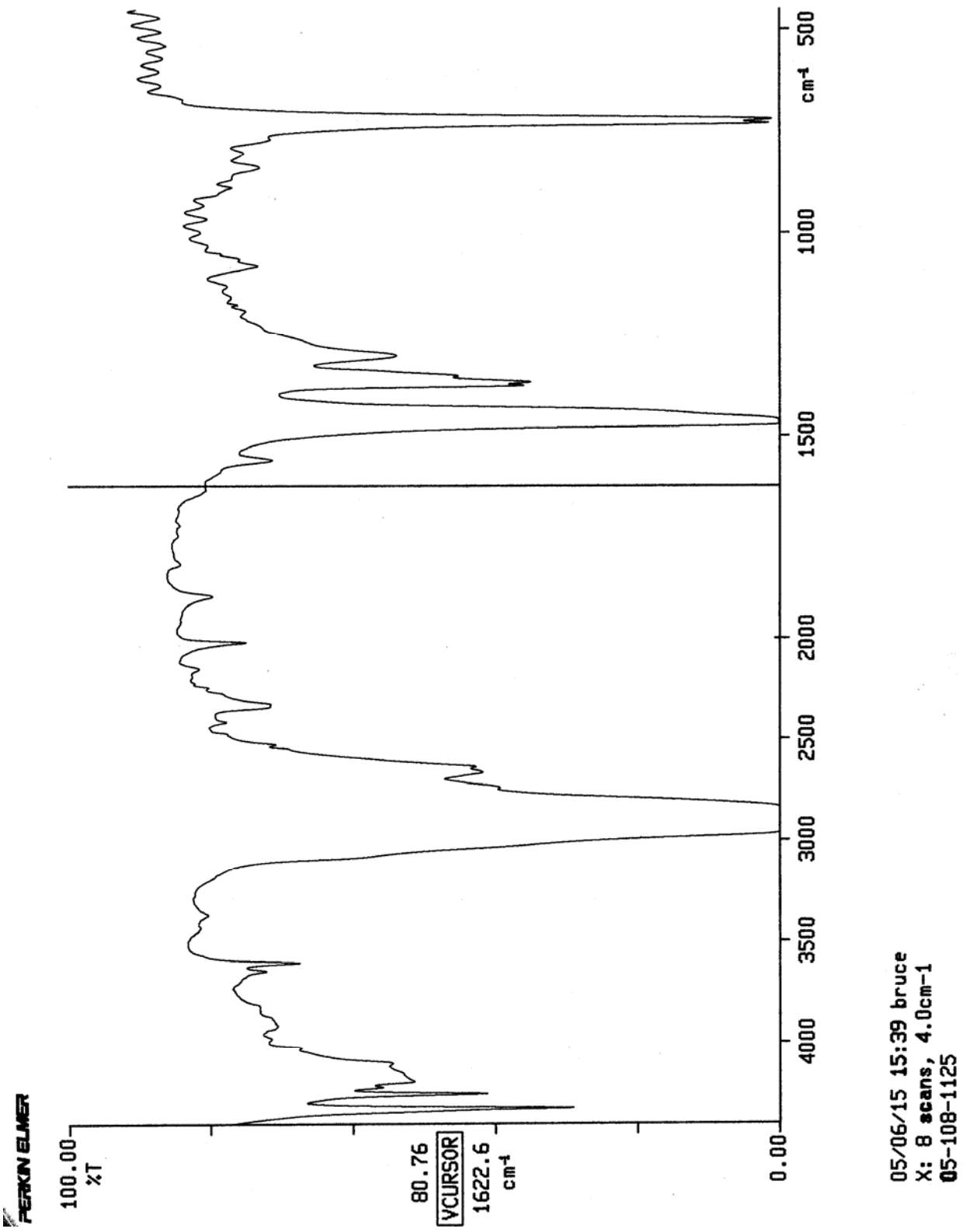
Nitrite Test: Excor film is nitrite based. Co-extruded film constructed with Cortec M-126 masterbatch is a non nitrite based film.

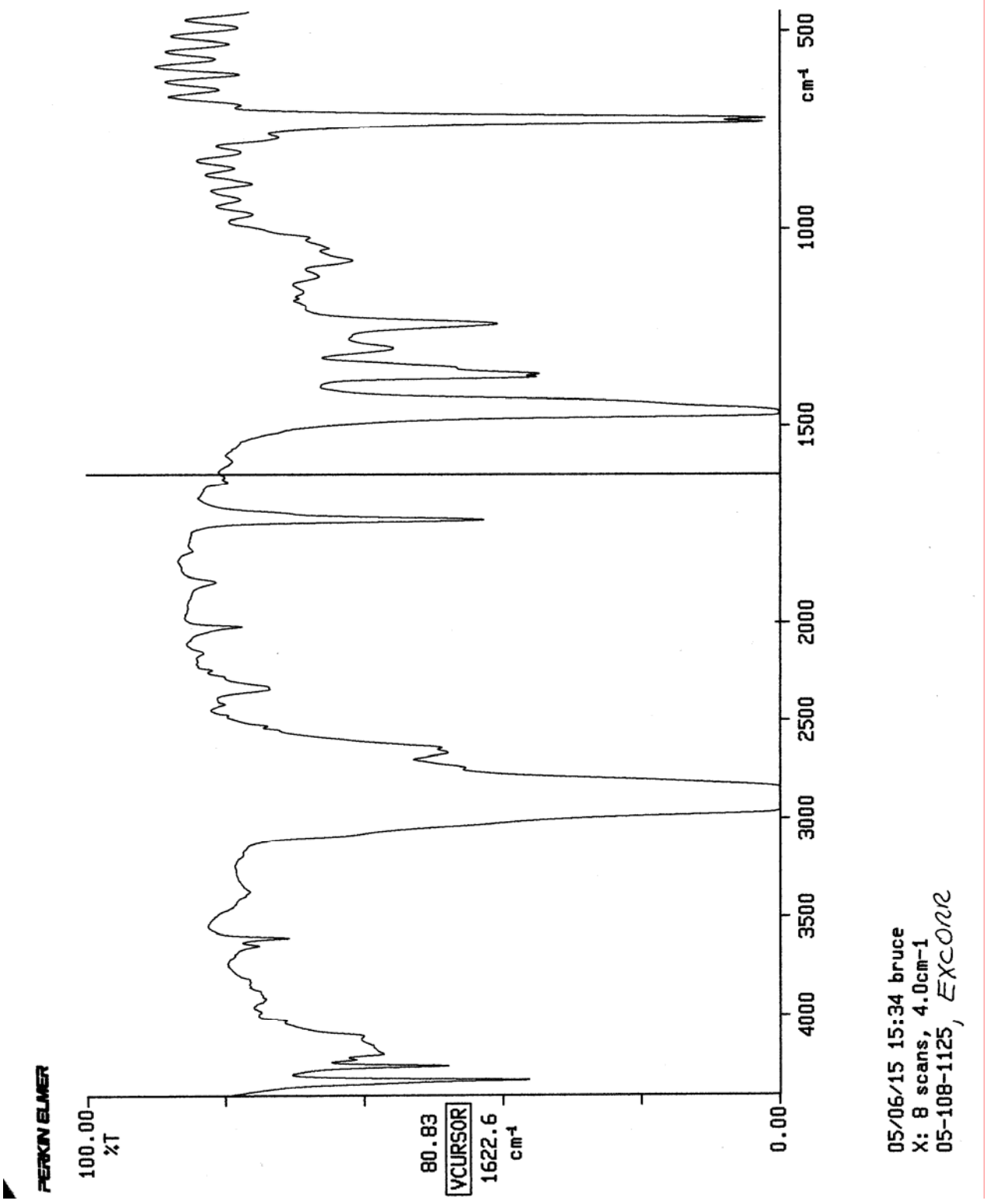
Conclusion: Co-extruded film constructed with Cortec M-126 masterbatch, provides a higher level of vapor phase corrosion inhibition compared to ExCor film.

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




PERKIN ELMER
100.00
%T
80.76
VCURSOR
1622.6
cm-1
0.00
4000
3500
3000
2500
2000
1500
1000
500
cm-1
05/06/15 15:39 bruce
X: 8 scans, 4.0cm-1
05-108-1125


PERKIN ELMER
100.00
%T
80.83
VCURSOR
1622.6
cm-1
0.00
4000
3500
3000
2500
2000
1500
1000
500
cm-1
05/06/15 15:34 bruce
X: 8 scans, 4.0cm-1
05-108-1125, EXCOR