

- 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 VCI ProPack paper

Background: Monica Tarragona/Atlas Industrial, submitted VCI ProPack paper. An evaluation of this product is sought.

Purpose: Evaluate the corrosion inhibition performance of submitted paper

Method: Razor Blade Test
VIA Test
Nitrite Test

Materials: Razor Blade Test Kit
VIA Test Kit
EM Quant Nitrite/Nitrate test strips (Lot #OC346275, Exp 9/06)
ProPack VCI Paper
Cortec VpCI-144 paper
Cortec VpCI-146 paper

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
ProPack VCI paper	Pass	Pass	Pass
Cortec VpCI-146 paper*	Pass	Pass	Pass
Cortec VpCI-144 paper*	Pass	Pass	Pass
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-144 and Cortec VpCI-146 papers

VIA Test

Material	Plug #1	Plug #2	Plug #3
ProPack VCI paper	Grade 0	Grade 0	Grade 0
Cortec VpCI-146 paper*	Grade 3	Grade 3	Grade 3
Cortec VpCI-144 paper*	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-144 and Cortec VpCI-146 papers

Nitrite Test: ProPack VCI paper is a nitrite based paper. No nitrite detected in Cortec VpCI-144 and Cortec VpCI-146 papers.



Conclusion: ProPack VCI paper does not provide vapor phase corrosion inhibition Propack VCI paper is heavily nitrite based.

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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

