

Evaluating Paper from IMS

Background: Ken Motsinger/Cortec Corporation submitted a paper/woven polymer lamination product. The product is coated with a corrosion inhibitor on the paper side. An evaluation is sought

Purpose: Evaluate the corrosion inhibition performance of polyethylene laminated paper.

Method: Razor Blade Test
 VIA Test
 SO₂ Test
 Nitrite Test

Materials: Razor Blade Test Kit
 VIA Test Kit
 SO₂ Test Kit
 EM Quant Nitrite/Nitrate Test strips (Lot # OC332590, Exp July 06)

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
IMS Paper	Pass	Pass	Pass
Cor-Pak VpCI Reinforced Paper	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Panel #1	Panel #2	Panel #3
IMS Paper	Grade 1	Grade 1	Grade 1
Cor-Pak VpCI Reinforced Paper	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

Nitrite Test: IMS paper is nitrite based. Cor-Pak VpCI Reinforced paper does not contain any Sodium Nitrite.

Conclusion: IMS paper fails to provide vapor phase corrosion inhibition.



Project #: 04-124-1125

Estimated Cost of Project: 3 hours

To: Ken Motsinger/Cortec Corporation

From: Bob Berg

Date: 09/08/04

cc: Boris Miksic
Anna Vignetti
Art Ahlbrecht
Rita Kharshan
Cliff Cracauer
Bob Boyle
Cindy Johnson

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

