

Evaluating Corrosion Inhibiting Paper Labeled as Georgia Packaging Inc

Background: Tim Rayburn/Alpine Summit submitted corrosion inhibiting paper labeled as Georgia Packaging. On one side of the paper is a wax coating. A corrosion inhibition evaluation is sought on the paper.

Purpose: Evaluate the corrosion inhibition offered by paper labeled as Georgia Packaging Inc.

Method: Razor Blade Test
VIA Test
SO₂ Test

Materials: Razor Blade Test Kit
VIA Test Kit
SO₂ Test Kit

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Paper labeled as Georgia Packaging Inc	Fail	Fail	Fail
Cortec VpCI-146 paper	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Paper labeled as Georgia Packaging Inc	Grade 0	Grade 0	Grade 0
Cortec VpCI-146 paper	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

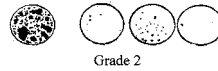
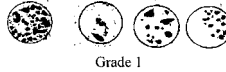
SO₂ Test

Material	Panel #1	Panel #2	Panel #3
Paper labeled as Georgia Packaging Inc	Grade 2	Grade 1	Grade 2
Cortec VpCI-146 paper	Grade 4	Grade 4	Grade 4
Control	Fail	Fail	Fail

Conclusion: Paper labeled as Georgia Packaging Inc, does not provide sufficient contact, vapor or barrier phase corrosion inhibition.

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



SO₂ Grades (Grade 3 and 4 are passing):

- Grade 0- Extensive corrosion covering 25% or more of panel surface
- Grade 1- Moderate corrosion covering 10-25% of panel surface
- Grade 2- Slight corrosion covering 5-10% of panel surface
- Grade 3- Very slight corrosion covering 0-5% of panel surface
- Grade 4- No visible corrosion on panel surface

Project #: 03-161-1125

Estimated Cost of Project: 3 hours