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Evaluating Caliburn Packaging Film

Background: Joe DiSabantonio/Stephens Packaging submitted blue colored packaging film to Cortec Corporation. A vapor phase corrosion inhibition evaluation is sought on this film.

Purpose: Evaluate the vapor inhibition ability of film.

Method: VIA Test
Nitrite Test

Materials: VIA Test Kit
EM Quant Nitrite/Nitrate Test Strips (Lot # OC130397, Exp Oct 04)

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

Results:

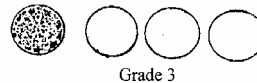
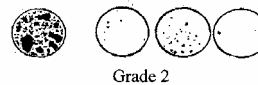
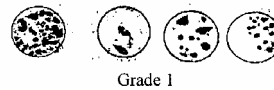
VIA Test

| Material | Plug #1 | Plug #2 | Plug #3 |
|-----------------------|---------|---------|---------|
| Caliburn Film | Grade 1 | Grade 1 | Grade 2 |
| Cortec VpCI-126 film* | Grade 3 | Grade 3 | Grade 3 |
| Control | Fail | Fail | Fail |

*Typical results for Cortec VpCI-126 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



Conclusion: Caliburn film does not provide vapor phase corrosion inhibition and it is nitrite-based.



Project #: 03-118-1125

Estimated Cost of Project: 3 hours

To: Joe DiSabantonio/Stephens Packaging

For: Rochester Midland

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