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## *Evaluating Brans Heinrich film*

- Background:** Brans Heinrich film was submitted to Cortec.
- Purpose:** Evaluate the corrosion inhibition performance of Brans Heinrich film.
- Method:** Razor Blade Test  
VIA Test  
FT-IR analysis
- Materials:** Razor Blade Test Kit  
VIA Test Kit  
Perkin Elmer FT-IR Spectrometer 1000
- Procedure:** The above tests were performed according to standard procedures for each.

**Results:**

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Brans Heinrich film	Fail	Fail	Fail
Cortec VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Panel #1	Panel #2	Panel #3
Brans Heinrich film	Grade 0	Grade 0	Grade 0
Cortec VpCI-126 film	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

\*Typical results for Cortec VpCI-126 film

**Conclusion:** Brans Heinrich film, in accordance to Cortec specifications, does not provide sufficient corrosion inhibition. From FT-IR Spectrum, film looks to contain a benzoate.

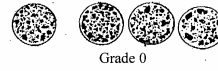
**Project #:** 05-187-1125

**Estimated Cost of Project:** 3 hours



**VIA Test Grades (Grade 2 or 3 are passing)**

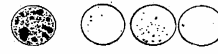
- Grade 0: Blind test  
No corrosion inhibiting effect
- Grade 1: Blind test  
Minute corrosion inhibiting effect
- Grade 2: Blind test  
Medium corrosion inhibiting effect
- Grade 3: Blind test  
Good corrosion inhibiting effect



Grade 0



Grade 1



Grade 2



Grade 3

*SO<sub>2</sub> 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

