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Evaluation of a White Shrink Film

Background: Grand Industries is using shrink film, manufactured by Dr. Shrink.

Purpose: To test the VCI properties of the submitted white shrink film, manufactured by Dr. Shrink.

Materials: Submitted white shrink film, manufactured by Dr. Shrink
 Razor Blade Test Kit
 VIA Test Kit
 Perkin Elmer FT-IR 1000 Spectrometer
 EM Quant Nitrite/Nitrate Test strips (Lot # OC555062, Exp 9/08)

Method: Razor Blade Test
 VIA Test
 FT-IR Analysis
 Nitrite Test

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

Results: Razor Blade Test (carbon steel)

Material	Panel #1	Panel #2	Panel #3
Submitted white shrink film	Fail	Fail	Fail
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted white shrink film	Grade 1	Grade 1	Grade 1
Control	Fail	Fail	Fail

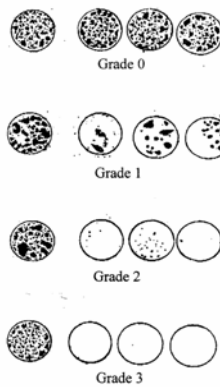
Nitrite Test: The submitted white film contains no nitrite on either side.

Conclusion: The submitted sample of white shrink film did not pass either the VIA or razor blade test, meaning that the corrosion inhibiting effect is very poor. Based on FT-IR results, this film contains desiccant only.



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



FTIR Analysis

Submitted white shrink film

