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Evaluation of Fuchs VCI film

Purpose: To evaluate the VCI properties of the submitted sample of Fuchs film

and compare it to Cortec's VpCI-126 film.

Materials: Submitted sample of Fuch's VCI film

Razor Blade Test Kit

VIA Test Kit

Perkin Elmer FT-IR 1000 Spectrometer

Method: Razor Blade Test

VIA Test

FT-IR Analysis

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
Fuch's VCI film	Fail	Fail	Fail
Cortec's VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

Razor Blade Test (copper)

Material	Panel #1	Panel #2	Panel #3
Fuch's VCI film	Fail	Fail	Fail
Cortec's VpCI-126 film	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Panel #1	Panel #2	Panel #3
Fuch's VCI film	Grade 1	Grade 0	Grade 0
Cortec's VpCI-126 film	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

Conclusion: The submitted sample of Fuchs VCI film failed to pass both the

VIA and razor blade tests. According to the FT-IR spectra, Fuchs VpCI film contains some salts of carboxylic acids, but these salts

do not provide sufficient protection.





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VIA Test Grades (Grade 2 or 3 are passing)

Grade 0: Blind test

No corrosion inhibiting effect

Grade 1: Blind test

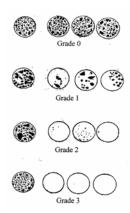
Minute corrosion inhibiting effect

Grade 2: Blind test

Medium corrosion inhibiting effect

Grade 3: Blind test

Good corrosion inhibiting effect



FT-IR Analysis

Fuch's Film

