



4119 White Bear Parkway, St. Paul, MN 55110 USA Phone: (651) 429-1100, Fax: (651) 429-1122 Toll Free: (800) 4-CORTEC, E-mail: info@cortecvci.com • . cortecvci.com • corteclaboratories.com Evaluation of Film Manufactured by Gelpac . To: Jessica Carpenter **Cortec Corporation** Metals Preservation Group For: From: Cortec Laboratories, Inc. 4119 White Bear Parkway St. Paul, MN 55110 . cc: **Boris Miksic** . Jessi Meyer Mike Gabor Scott Bryan -Ivana Radic Borsic Eric Uutala . 0 Project #: 23-115-1125 . . Brian Benduling 0 0 **Results reported by:** 0 **Brian Benduha** • Lab Technician II 0 . 0 -R m & Kannon 0 . **Results approved by:** 0 Rick Shannon . 0 **Technical Services Manager**



Background:

A sample of film manufactured by Gelpac in Quebec was submitted for testing to determine the corrosion protection capabilities.

Sample Received:

Blue Film bag, 2.5mil manufactured by Gelpac

Method:

- NACE Standard VIA Test, TM 0208-2018
- Razor Blade Test, CC-004* *The test marked is not covered under Cortec Laboratories, Inc. ISO 17025 Scope of Accreditation

Materials:

- 1. VIA test kit (testing jars with lid apparatus, steel plugs, 400grit sandpaper)
- 2. Buehler Plug Grinder, Ecomet V Polisher (manual turn table plug grinder)
- 3. Steel panels, SAE 1008/1010 (Q-Panel, S-35 DG, 3"x5"x0.032")
- 4. Copper panels
- 5. Glycerin (Rm-350, lot #022423-1)
- 6. Methanol, ACS grade (CAS #67-56-1)
- 7. Scale I (0.0g)
- 8. Lint-free cotton wipes
- 9. DI water
- 10. Plain Polyethylene film
- 11. Calibrated thermometer (QA-CHQ-107)

Procedure:

All testing was conducted according to standard procedure.

Results:

Razor Blade Test- Steel Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
Gelpac Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

Razor Blade Test- Copper Panels

Sample	Panel #1	Panel #2	Panel #3	End Result
Gelpac Film	Fail	Fail	Fail	Fail
Control	Fail	-	-	Fail

NACE VIA Test

Sample	Plug #1	Plug #2	Plug #3	End Result
Gelpac Film	Grade 0	Grade 0	Grade 0	No corrosion protective effect
Control	Grade 0	-	-	No corrosion protective effect

Photo of VIA plugs after testing:



Interpretations:

The submitted film manufactured by Gelpac does not appear to provide any corrosion protection in the contact phase or vapor phase according to the results of the razor blade and VIA test.