



• 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

Comparison of Armor Multi-Metal VCI Film, Cortec VpCI-126 Film, and Cortec Cor-Pak EX Film (Part 2)

To: Steve Pearl

For: Bruce Philips
Philpac
1144 Military Rd.
Buffalo, NY

From: Cortec Laboratories, Inc.
4119 White Bear Parkway
St. Paul, MN 55110

cc: Boris Miksic
Cliff Cracauer
Robert Kean

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Results reported by:

Anne Carlson
Lab Technician

Approved by:

Eric Uutala
Technical Service Manager



Background: Curtis Screw currently uses Armor VCI film (1-mil) in their process. They would like to evaluate the rust preventive properties of this film, and also compare it with VpCI-126 Blue and Cor-Pak EX Film.

Part 2 of this test will evaluate the contact corrosion protection given by these films on copper.

Sample Received: Armor Multi-metal VCI film, 1 mil. Good condition.

Method: Razor Blade Test, CC-004*
*Cortec Laboratories, Inc. is not ISO/IEC 17025 accredited for the test(s) marked.

Materials: Razor Blade Test kit
VpCI-126 film (batch #410220)
Cor-Pak EX film (lot #37696)
Polyethylene film (control)

Procedure: Test was performed according to standard procedure.

Results:

Razor Blade Test (Copper)

Film	Panel 1	Panel 2	Panel 3	Overall
Armor	Pass	Fail	Fail	Fail
VpCI-126	Pass	Pass	Pass	Pass
CorPak EX	Pass	Fail	Pass	Pass
Control	Fail	-	-	Fail

Interpretations: Armor Multi-metal VCI film does not provide sufficient contact phase protection for copper. On the other hand, both Cortec VpCI 126 film and Cortec CorPak EX film provide sufficient protection for copper.