



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

## *Evaluating VpCI-126 Film Effectiveness on Parts*

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

**cc:** Boris Miksic  
Anna Vignetti  
Cliff Cracauer  
Bob Boyle

**Project #:** 11-223-1125(bis)

**Test conducted by:**

Eric Uutala  
Technical Service Engineer

**Approved by:**

Margarita Kharshan  
Laboratory Director

**Date:** October 12, 2011



**Background:** Four boxes of parts were sent from customer. They would like the corrosion inhibiting properties of VpCI-126 evaluated in elevated heat and humidity conditions.

**Sample Received:** Four boxes of parts

**Method:** ASTM D-1748 (120°F, 95% relative humidity)

**Materials:** Four boxes of parts  
VpCI-126 Blue Film

**Procedure:** The following procedure was used:

- 1) Four boxes (two large, two small) of parts arrived packaged and ready for testing.
  - a. VpCI-126 Blue Film was used to package parts in two of the boxes (one large, one small).
  - b. Parts in the other two boxes had no further packaging used.
- 2) Boxes were placed into ASTM D-1748 humidity cabinet as received, per customer request.
- 3) After 360 hours, boxes were removed from ASTM D-1748 humidity cabinet.
- 4) Boxes were opened and parts inside were visually inspected and photographed.

**Results:** Discussed in Interpretations section below.

**Photos:** See below.



Figure 1: Small box of parts (unprotected), after 360 hours of testing.



Figure 2: Large box of parts (unprotected) after 360 hours of testing.





Figure 3: Small box of parts, wrapped in VpCI-126, after 360 hours of testing.



Figure 4: Large box of parts, wrapped in VpCI-126, after 360 hours of testing.

**Interpretations:** VpCI-126 provided excellent corrosion protection on parts from customer. Parts inside the unprotected boxes showed significant corrosion after 360 hours, while the VpCI packaged parts were corrosion free.