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## *Comparing Benz Oil to Various Cortec Rust Preventatives*

- Purpose:** To compare the corrosion protection of Benz Oil to similar Cortec products.
- Method:** ASTM D-1748 Humidity Cabinet (120°F, ~95% relative humidity)
- Materials:** Benz Oil  
 VpCI-325  
 VpCI-329D  
 VpCI-368D  
 VpCI-369D  
 VpCI-389D  
 VpCI-391  
 1010 carbon steel panels
- Procedure:** The following procedure was used:
- 1) Eight carbon steel panels were cleaned with methanol in preparation for testing.
  - 2) Each panel was coated with one of the following products:
    - a. Benz Oil
    - b. VpCI-325
    - c. VpCI-329D
    - d. VpCI-368D
    - e. VpCI-369D
    - f. VpCI-389D
    - g. VpCI-391
    - h. Uncoated (control)
  - 3) After coating, the eight panels were hung to air dry overnight.
  - 4) After drying, all panels were hung in ASTM D-1748 humidity cabinet.
  - 5) All panels were visually inspected periodically.
  - 6) After 600 hours, all panels were removed from ASTM D-1748 humidity cabinet.
  - 7) Panels were visually inspected and photographed.

**Results:** The following results were found:

Panel	Time to Failure (Hours)
A1	DNF*
B1	480
C1	DNF*
D1	DNF*
E1	DNF*
F1	DNF*
G1	DNF*
H1	<24

DNF – Did not fail during 600 hours of testing.



**Conclusion:** Overall, the Cortec products tested provided protection equal to that of the Benz Oil product. Only VpCI-325 failed prior to the end of testing. All the other products kept the carbon steel free of corrosion for 600 hours in ASTM D-1748 humidity cabinet conditions. Furthermore, most of the Cortec products are safer and easier to use than the Benz Oil product. For example, VpCI-389D and VpCI-391 are water based, yet still provide equal (or better) protection.

**Project #:** 08-246-1825(bis)











