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Evaluating Rust Preventives

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Background: Customer sent three machined metal rings to Cortec for testing. They would like the corrosion protection of LPS3 evaluated and compared to similar Cortec products.

Sample Received: Three machined metal rings
LPS3 aerosol can

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

Materials: Three machined metal rings
LPS3 aerosol
EcoLine 3690
VpCI-389D

Procedure: The following procedure was used:

- 1) Prior to testing, all three rings were cleaned with methanol.
- 2) After cleaning, rings were treated in one of the following ways:
 - a. Sprayed with LPS3
 - b. Dipped in EcoLine 3690
 - c. Dipped in VpCI-389D
- 3) After treating, all rings were hung to dry overnight.
- 4) All rings were then hung in ASTM D-1748 humidity cabinet.
- 5) All rings were visually inspected periodically.
- 6) After 768 hours, all rings were removed from ASTM D-1748 humidity cabinet.
- 7) All rings were visually inspected and photographed.

Results: The following results were found:

Product Used	Time to Corrosion (Hours)
LPS3	DNF*
EcoLine 3690	DNF*
VpCI-389D	DNF*

DNF – Did not fail during 768 hours of humidity testing.

Photos:





Interpretations: All three products provided equal corrosion protection in this test. While LPS3 is solvent and petroleum based, Cortec products tested were canola oil based (EcoLine 3690) and water based (VpCI-389D).