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Evaluating Rust Preventives for Customer

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Background: Customer sent sample parts, along with their current rust preventive fluid. They would like their current RP tested and compared to similar Cortec products.

Sample Received: Metal test parts
Lily Products Cleaner RP-10

Method: ASTM D-1748 Humidity (120°F, ~99% relative humidity)

Materials: Metal test parts
Lily Products Cleaner RP-10
BioCorr
VpCI-377
Deionized water
Laboratory grade methanol

Procedure: The following procedure was used:

- 1) Prior to testing, all parts were cleaned with methanol.
- 2) After cleaning, parts were divided evenly and treated as follows:
 - a. Control (no further treatment)
 - b. Dipped in Cleaner RP-10 (used as received)
 - c. Dipped in BioCorr (neat)
 - d. Dipped in VpCI-377 (used at 7% concentration in deionized water)
- 3) After dipping, all parts were hung to dry overnight.
- 4) All parts were then hung in ASTM D-1748 humidity cabinet.
- 5) All parts were visually inspected and photographed.
- 6) After 600 hours, all parts were removed from ASTM D-1748 humidity cabinet.
- 7) Parts were visually inspected, and one part from each group was photographed.

Results: The following results were found:

Rust Preventive Used	Time to Corrosion (Hours)
None (control)	<24
Cleaner RP-10	48
BioCorr	DNF*
VpCI-377	600

DNF – Did not fail during 600 hours of ASTM D-1748 testing.

Photos:





Interpretations: Both Cortec products provided superior corrosion protection in this test. Of the two, BioCorr provided the best protection.