



• 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@corotecvci.com
corotecvci.com • corteclaboratories.com

Comparing BioCorr to Quenching Fluid

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

cc: Boris Miksic
Anna Vignetti
Cliff Cracauer
Bob Boyle

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Test conducted by:

Eric Uutala
Technical Service Engineer

Approved by:

Margarita Kharshan
Laboratory Director

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Sample Received: Daphne Plastic Quench RP “From Sump 5%”

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

Materials: Daphne Quench
BioCorr
1010 cold rolled carbon steel panels

Procedure: The following procedure was used:

- 1) Three carbon steel panels were cleaned with methanol prior to testing.
- 2) After cleaning, panels were prepared as follows:
 - a. Control (no further preparation)
 - b. Dipped in Daphne Quench (used as received)
 - c. Dipped in BioCorr (neat)
- 3) After dipping, panels were hung to air dry overnight.
- 4) All panels were then hung in ASTM D-1748 humidity cabinet.
- 5) Panels were visually inspected periodically.
- 6) After 600 hours, all panels were removed from ASTM D-1748 humidity cabinet.
- 7) All panels were visually inspected and photographed.

Results: The following results were found:

Panel Treatment	Time to Corrosion (Hours)
Control	<24
Daphne Quench	96
BioCorr	600

Photos:



Interpretations: BioCorr provides superior corrosion protection Daphne Plastic Quench RP-U. After 600 hours of accelerated corrosion testing, very little corrosion was seen on the carbon steel panel protected by BioCorr. Conversely, the panel protected by Daphne was severely corroded.