

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110330

Sales Order #: C002682
 CCC Panel #: P67433
 Date In: 06-May-2010
 Date Out: 21-May-2010
 Days In Service: 15

Room Area ID:
 Reference #:



| |
|--|
| CCC Panel # P67433 |
| ISA Class G1 Mild |
| Copper Corrosion 129 Å/30 Days |
| Silver Corrosion 228 Å/30 Days |

(see next page for complete analysis)

Summary for PURAFIL CCC # P67433

The electrolytic reduction analysis on Corrosion Classification Coupon #P67433 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. Corrosion is not a factor in determining equipment reliability in this environment.

Your local representative for additional information and assistance is:
 Environmental Health and Eng
 117 Fourth Avenue, Needham MA 02494, USA
 tminegishi@eheinc.com

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Displaying Page 1 [Display Page 2](#)

PURAFIL CCC # P67433 Analysis Results

| Corrosion Film Composition | | | | Gold Coupon - Magnified 20x |
|----------------------------|-------------|--------|---------|--------------------------------|
| | Projections | | | |
| | 30 Days | 1 Year | 5 Year | |
| Copper Films | | | | |
| Cu ₂ S | 0 Å | 0 Å | 0 Å | |
| Cu ₂ O | 129 Å | 175 Å | 228 Å | |
| Unknowns | 0 Å | 0 Å | 0 Å | |
| Totals | 129 Å | 175 Å | 228 Å | |
| Silver Films | | | | |
| AgCl | 0 Å | 0 Å | 0 Å | |
| Ag ₂ S | 228 Å | 2779 Å | 13893 Å | |
| Unknowns | 0 Å | 0 Å | 0 Å | |
| Totals | 228 Å | 2779 Å | 13893 Å | |

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

Equipment Reliability Correlation
(ISA Standard S71.04-1985 for Copper)

