

PURAFIL ENVIRONMENTAL CORROSION REPORT

05-Nov-2010

Company: 118498

Sales Order #: C002726
 CCC Panel #: P68740
 Date In: 04-Oct-2010
 Date Out: 19-Oct-2010
 Days In Service: 15

Room/Area ID:
 Reference #:

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

| | |
|--------------------------|---|
| Company 118498 | |
| Address | |
| Room/Area I.D. | |
| Date In 10/4/10 | Time In: 12²⁵ a.m. / 12²⁵ p.m. |
| Date Out 10/19/10 | Time Out: 11⁵⁵ a.m. / 11⁵⁵ p.m. |
| Coupon 68740 | Tracking # 02726 |
| Serial # | |

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CCC Panel # P68740

ISA Class G1
Mild

Copper Corrosion
261 Å/30 Days

Silver Corrosion
406 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68740

The electrolytic reduction analysis on Corrosion Classification Coupon #P68740 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. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

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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 Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P68740 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 | 261 Å | 353 Å | 461 Å | |
| Unknowns | 0 Å | 0 Å | 0 Å | |
| Totals | 261 Å | 353 Å | 461 Å | |
| Silver Films | | | | |
| AgCl | 0 Å | 0 Å | 0 Å | |
| Ag ₂ S | 406 Å | 4942 Å | 24711 Å | |
| Unknowns | 0 Å | 0 Å | 0 Å | |
| Totals | 406 Å | 4942 Å | 24711 Å | |
| Gold Pore Corrosion: | | | | |
| Note: 1000 Å = 0.1 micron | | | | |

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

