

# PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Dec-2010

Company: 116740

Sales Order #: C002726  
CCC Panel #: P68789  
Date In: 15-Nov-2010  
Date Out: 29-Nov-2010  
Days In Service: 14

Room/Area ID:  
Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

|                          |                                 |
|--------------------------|---------------------------------|
| Company <b>116740</b>    |                                 |
| Address                  |                                 |
| Room/Area I.D.           |                                 |
| Date In <b>11/15/10</b>  | Time In: <b>11:15</b> a.m. p.m. |
| Date Out <b>11/29/10</b> | Time Out: <b>a.m. 1:00</b> p.m. |
| Coupon # <b>68789</b>    | Tracking # <b>02726</b>         |
| Serial #                 |                                 |

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**PURAFIL**  
First...In clean air

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**CCC Panel # P68789**

**ISA Class G2**  
Moderate

**Copper Corrosion**  
515 Å/30 Days

**Silver Corrosion**  
4249 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P68789

The electrolytic reduction analysis on Corrosion Classification Coupon #P68789 shows the presence of moderate concentrations of contaminants in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb and the sulfur dioxide level between 10 and 100 ppb. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

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 # P68789 Analysis Results

| Corrosion Film Composition  |                |               |               | Gold Coupon -<br>Magnified 20x |
|-----------------------------|----------------|---------------|---------------|--------------------------------|
|                             | Projections    |               |               |                                |
|                             | <u>30 Days</u> | <u>1 Year</u> | <u>5 Year</u> |                                |
| Copper Films                |                |               |               |                                |
| Cu <sub>2</sub> S           | 0 Å            | 0 Å           | 0 Å           |                                |
| Cu <sub>2</sub> O           | 182 Å          | 368 Å         | 630 Å         |                                |
| Unknowns                    | 333 Å          | 675 Å         | 1155 Å        |                                |
| Totals                      | 515 Å          | 1043 Å        | 1785 Å        |                                |
| Silver Films                |                |               |               |                                |
| AgCl                        | 0 Å            | 0 Å           | 0 Å           |                                |
| Ag <sub>2</sub> S           | 4249 Å         | 51733 Å       | 258665 Å      |                                |
| Unknowns                    | 0 Å            | 0 Å           | 0 Å           |                                |
| Totals                      | 4249 Å         | 51733 Å       | 258665 Å      |                                |
| <b>Gold Pore Corrosion:</b> |                |               |               |                                |
| Note: 1000 Å = 0.1 micron   |                |               |               |                                |

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

