

# PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 116131

Sales Order #: C002697

CCC Panel #: P68002

Date In: 21-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 14

Room Area ID:

Reference #:

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company <b>116131</b>	
Address	
Room/Area I.D.	
Date In <b>9/21/10</b>	Time In: a.m. <b>11:30</b> p.m.
Date Out <b>10/5/10</b>	Time Out: a.m. <b>15:47</b> p.m.
Coupon # <b>68002</b>	Tracking # <b>02697</b>
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	

**PURAFIL**  
First. In clean air

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<b>CCC Panel # P68002</b>
<b>ISA Class G2</b>
Moderate

<b>Copper Corrosion</b>
384 Å/30 Days
<b>Silver Corrosion</b>
561 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68002

The electrolytic reduction analysis on Corrosion Classification Coupon #P68002 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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Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922  
Email: purafil@purafil.com / Internet: http://www.purafil.com

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Displaying Page 1    [Display Page 2](#)

**PURAFIL CCC # P68002 Analysis Results**

<b>Corrosion Film Composition</b>				<b>Gold Coupon - Magnified 20x</b>
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
<b>Copper Films</b>				
Cu <sub>2</sub> S	274 Å	366 Å	479 Å	
Cu <sub>2</sub> O	110 Å	146 Å	191 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	384 Å	512 Å	670 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	561 Å	6833 Å	34163 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	561 Å	6833 Å	34163 Å	

**Gold Pore Corrosion:**  
 Note: 1000 Å = 0.1 micron

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

