

# PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 115592

Sales Order #: C002697

CCC Panel #: P67933

Date In: 22-Sep-2010

Date Out: 06-Oct-2010

Days In Service: 14

Room Area ID: Master

Reference #:

115592

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address	
Room/Area I.D. <i>Master</i>	
Date In <i>9/22/10</i>	Time In: <i>17:00</i> a.m. p.m.
Date Out <i>10/6/10</i>	Time Out: <i>11:00</i> a.m. p.m.
Coupon # <i>67933</i>	Tracking # <i>02697</i>
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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CCC Panel # P67933

ISA Class G2

Moderate

Copper Corrosion

499 Å/30 Days

Silver Corrosion

2062 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P67933

The electrolytic reduction analysis on Corrosion Classification Coupon #P67933 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, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 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 # P67933 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	298 Å	604 Å	1033 Å	
Cu <sub>2</sub> O	122 Å	246 Å	421 Å	
Unknowns	79 Å	161 Å	275 Å	
Totals	499 Å	1011 Å	1729 Å	
<b>Silver Films</b>				
AgCl	298 Å	3634 Å	18169 Å	
Ag <sub>2</sub> S	1764 Å	21474 Å	107370 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	2062 Å	25108 Å	125539 Å	

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

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

