

# PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 116168

Sales Order #: C002697

CCC Panel #: P68011

Date In: 24-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 13

Room Area ID:

Reference #:

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company: <b>116168</b>	
Address:	
Room/Area I.D.:	
Date In: <b>9/24/10</b>	Time In: <b>8:00</b> a.m. p.m.
Date Out: <b>10/7/10</b>	Time Out: <b>10:00</b> a.m. p.m.
Coupon #: <b>P68011</b>	Tracking #: <b>02697</b>
Serial #:	

Industrial   
 ERM   
 Preservation   
 CIF

**PURAFIL**  
 First-In clean air

2654 Weaver Way • Doraville, Georgia 30340  
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<b>CCC Panel # P68011</b>
<b>ISA Class G2</b>
Moderate

<b>Copper Corrosion</b>
376 Å/30 Days
<b>Silver Corrosion</b>
464 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68011

The electrolytic reduction analysis on Corrosion Classification Coupon #P68011 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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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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**PURAFIL CCC # P68011 Analysis Results**

	Corrosion Film Composition			Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
<b>Copper Films</b>				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	376 Å	496 Å	648 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	376 Å	496 Å	648 Å	
<b>Silver Films</b>				
AgCl	50 Å	611 Å	3057 Å	
Ag <sub>2</sub> S	414 Å	5046 Å	25228 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	464 Å	5657 Å	28285 Å	

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

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

