

# PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 116183

Sales Order #: C002697

CCC Panel #: P68025

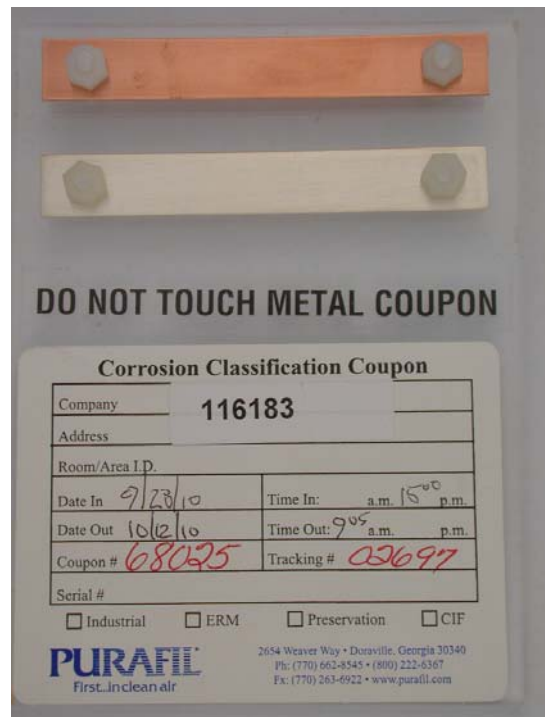
Date In: 28-Sep-2010

Date Out: 12-Oct-2010

Days In Service: 14

Room Area ID:

Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company		116183	
Address			
Room/Area I.D.			
Date In	9/28/10	Time In:	1:50 <sup>00</sup> p.m.
Date Out	10/12/10	Time Out:	9:05 <sup>00</sup> a.m.
Coupon #	68025	Tracking #	02697
Serial #			
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF			

**PURAFIL**  
 First. In clean air.

2654 Weaver Way • Doraville, Georgia 30340  
 Ph: (770) 662-8545 • (800) 222-6367  
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<b>CCC Panel # P68025</b>
<b>ISA Class G2</b>
Moderate

<b>Copper Corrosion</b>
333 Å/30 Days
<b>Silver Corrosion</b>
321 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68025

The electrolytic reduction analysis on Corrosion Classification Coupon #P68025 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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**PURAFIL CCC # P68025 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	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	169 Å	225 Å	294 Å	
Unknowns	164 Å	218 Å	286 Å	
Totals	333 Å	443 Å	580 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	321 Å	3904 Å	19522 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	321 Å	3904 Å	19522 Å	

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

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

