

# PURAFIL ENVIRONMENTAL CORROSION REPORT

02-Dec-2010

Company: 118739

Sales Order #: C002726

CCC Panel #: P68836

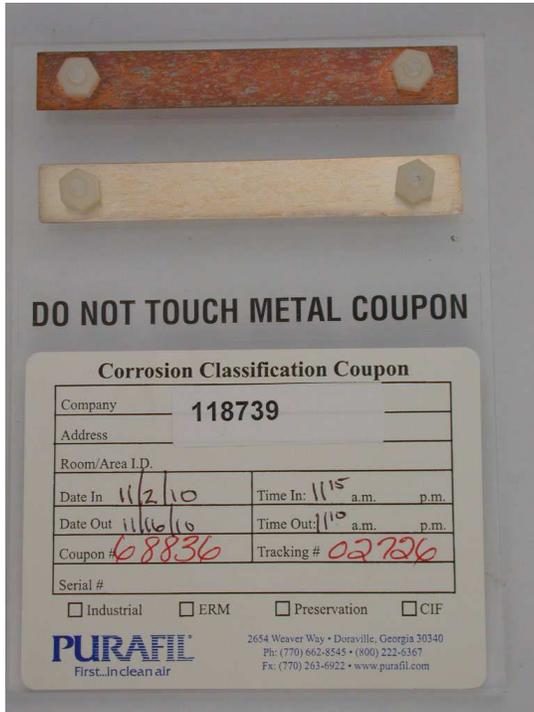
Date In: 02-Nov-2010

Date Out: 16-Nov-2010

Days In Service: 14

Room/Area ID:

Reference #:



**DO NOT TOUCH METAL COUPON**

Corrosion Classification Coupon	
Company	118739
Address	
Room/Area I.D.	
Date In	11/2/10
Time In	11 <sup>15</sup> a.m. p.m.
Date Out	11/16/10
Time Out	11 <sup>10</sup> a.m. p.m.
Coupon #	68836
Tracking #	02726
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	
 2654 Weaver Way • Doraville, Georgia 30340 Ph: (770) 662-8545 • (800) 222-6367 Fx: (770) 263-6922 • www.purafil.com	

<b>CCC Panel # P68836</b>
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<b>ISA Class GX</b>
Severe

<b>Copper Corrosion</b>
2459 Å/30 Days

<b>Silver Corrosion</b>
411 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68836

The electrolytic reduction analysis on Corrosion Classification Coupon #P68836 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

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 # P68836 Analysis Results**

<b>Corrosion Film Composition</b>				<b>Gold Coupon - Magnified 20x</b>
	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	322 Å	768 Å	1717 Å	
Unknowns	2137 Å	5095 Å	11392 Å	
Totals	2459 Å	5863 Å	13109 Å	
<b>Silver Films</b>				
AgCl	124 Å	1514 Å	7570 Å	
Ag <sub>2</sub> S	287 Å	3490 Å	17448 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	411 Å	5004 Å	25018 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

