

# PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115712

Sales Order #: C002697

CCC Panel #: P68004

Date In: 23-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 14

Room Area ID:

Reference #:

115712

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address	
Room/Area I.D. FB	
Date In 9/23/10	Time In: 16:45 a.m. p.m.
Date Out 10/7/10	Time Out: 9:40 a.m. p.m.
Coupon # 68004	Tracking # 02697
Serial #	

Industrial   
 ERM   
 Preservation   
 CIF

**PURAFIL**  
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340  
Ph: (770) 662-8545 • (800) 222-6367  
Fz: (770) 263-6922 • www.purafil.com

<b>CCC Panel # P68004</b>
<b>ISA Class G1</b>
Mild

<b>Copper Corrosion</b>
282 Å/30 Days
<b>Silver Corrosion</b>
285 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68004

The electrolytic reduction analysis on Corrosion Classification Coupon #P68004 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. Corrosion is not a factor in determining equipment reliability in this environment.

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 # P68004 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	282 Å	377 Å	493 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	282 Å	377 Å	493 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	285 Å	3465 Å	17326 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	285 Å	3465 Å	17326 Å	

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

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

