

# PURAFIL ENVIRONMENTAL CORROSION REPORT

Company: 115391

28-Oct-2010

Sales Order #: C002687  
 CCC Panel #: P67644  
 Date In: 20-Sep-2010  
 Date Out: 05-Oct-2010  
 Days In Service: 15

Room Area ID:  
 Reference #:

DO NOT 115391 COUPON

**Corrosion Classification Coupon**

Company:	
Address:	
Room/Area ID: <i>Master</i>	
Date In: <i>9/20/10</i>	Time In: <i>11:58</i> a.m. - p.m.
Date Out: <i>10/5/10</i>	Time Out: <i>12:24</i> a.m. - p.m.
Coupon #: <i>67644</i>	Tracking #: <i>02687</i>
Serial #	

Industrial   
 ERM   
 Preservation   
 CIF

**PURAFIL**  
 Test, Inclean air

2654 Weaver Way, Doraville, Georgia 30340  
 Tel: (770) 662-8545 / (800) 223-6922  
 Fax: (770) 263-6922 / www.purafil.com

**CCC Panel # P67644**

**ISA Class G2**  
Moderate

**Copper Corrosion**  
445 Å/30 Days

**Silver Corrosion**  
954 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P67644

The electrolytic reduction analysis on Corrosion Classification Coupon #P67644 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 # P67644 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	196 Å	402 Å	687 Å	
Unknowns	249 Å	511 Å	873 Å	
Totals	445 Å	913 Å	1560 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	954 Å	11616 Å	58078 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	954 Å	11616 Å	58078 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

