

# PURAFIL ENVIRONMENTAL CORROSION REPORT

26-Oct-2010

Company: 115824

Sales Order #: C002697

CCC Panel #: P68026

Date In: 24-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 13

Room Area ID: LR

Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company: 115824

Address:

Room/Area I.D.: LR

Date In: 9/24/10 Time In: 7:30 a.m. p.m.

Date Out: 10/7/10 Time Out: 4:55 a.m. p.m.

Coupon #: 68026 Tracking #: 02697

Serial #

Industrial  ERM  Preservation  CIF

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

2654 Weaver Way • Doraville, Georgia 30340  
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CCC Panel # P68026

ISA Class G2

Moderate

Copper Corrosion

387 Å/30 Days

Silver Corrosion

2374 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P68026

The electrolytic reduction analysis on Corrosion Classification Coupon #P68026 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

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 # P68026 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	301 Å	398 Å	520 Å	
Cu <sub>2</sub> O	86 Å	114 Å	149 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	387 Å	512 Å	669 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	2374 Å	28907 Å	144537 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	2374 Å	28907 Å	144537 Å	

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

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

