

# PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 115593

Sales Order #: C002697

CCC Panel #: P67958

Date In: 22-Sep-2010

Date Out: 06-Oct-2010

Days In Service: 14

Room Area ID: Supply

Reference #:

**115593**

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address	
Room/Area I.D. <i>Supply</i>	
Date In <i>9/22/10</i>	Time In: <i>17:00</i> a.m. p.m.
Date Out <i>10/6/10</i>	Time Out: <i>11:25</i> a.m. p.m.
Coupon # <i>67958</i>	Tracking # <i>02697</i>
Serial #	

Industrial   
 ERM   
 Preservation   
 CIF

**PURAFIL**  
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<b>CCC Panel # P67958</b>
<b>ISA Class G2</b>
Moderate

<b>Copper Corrosion</b>
572 Å/30 Days
<b>Silver Corrosion</b>
992 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P67958

The electrolytic reduction analysis on Corrosion Classification Coupon #P67958 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, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 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 # P67958 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	178 Å	361 Å	617 Å	
Cu <sub>2</sub> O	77 Å	155 Å	265 Å	
Unknowns	317 Å	643 Å	1100 Å	
Totals	572 Å	1159 Å	1982 Å	
<b>Silver Films</b>				
AgCl	311 Å	3785 Å	18926 Å	
Ag <sub>2</sub> S	681 Å	8297 Å	41484 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	992 Å	12082 Å	60410 Å	

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

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

