

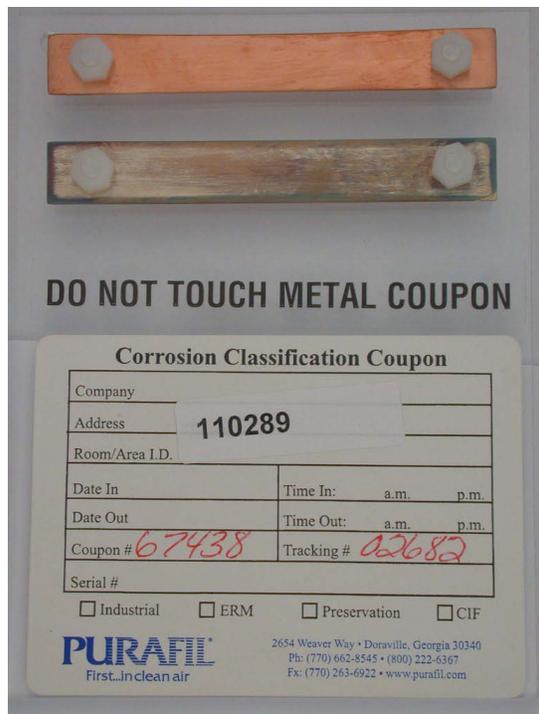
# PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110289

Sales Order #: C002682  
 CCC Panel #: P67438  
 Date In: 05-May-2010  
 Date Out: 20-May-2010  
 Days In Service: 15

Room Area ID:  
 Reference #:



<b>CCC Panel # P67438</b>
<b>ISA Class G2</b> Moderate
<b>Copper Corrosion</b> 598 Å/30 Days
<b>Silver Corrosion</b> 1005 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P67438

The electrolytic reduction analysis on Corrosion Classification Coupon #P67438 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 # P67438 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
<b>Copper Films</b>				
Cu <sub>2</sub> S	430 Å	1500 Å	3354 Å	
Cu <sub>2</sub> O	168 Å	587 Å	1313 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	598 Å	2087 Å	4667 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	898 Å	10932 Å	54661 Å	
Unknowns	107 Å	1307 Å	6535 Å	
Totals	1005 Å	12239 Å	61196 Å	

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

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

