

# PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

02-Jun-2010

Company: 110331

Room Area ID:

Reference #:

Sales Order #: C002682  
 CCC Panel #: P67435  
 Date In: 06-May-2010  
 Date Out: 21-May-2010  
 Days In Service: 15



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address <b>110331</b>	
Room/Area L...	
Date In	Time In: a.m. p.m.
Date Out	Time Out: a.m. p.m.
Coupon # <b>67435</b>	Tracking # <b>02682</b>
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	

**PURAFIL**  
First-Incleanair

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 Ex: (770) 263-6922 • www.purafil.com

**CCC Panel # P67435**

**ISA Class G2**  
 Moderate

**Copper Corrosion**  
 302 Å/30 Days

**Silver Corrosion**  
 842 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P67435

The electrolytic reduction analysis on Corrosion Classification Coupon #P67435 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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 Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P67435 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
Projections				
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
<b>Copper Films</b>				
Cu <sub>2</sub> S	239 Å	323 Å	423 Å	
Cu <sub>2</sub> O	63 Å	85 Å	111 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	302 Å	408 Å	534 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	748 Å	9110 Å	45551 Å	
Unknowns	94 Å	1150 Å	5751 Å	
Totals	842 Å	10260 Å	51302 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

