

PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115905

Sales Order #: C002697

CCC Panel #: P67999

Date In: 29-Sep-2010

Date Out: 13-Oct-2010

Days In Service: 14

Room Area ID: Living Room

Reference #:

115905

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. <i>Living Room</i>	
Date In <i>9/29/10</i>	Time In: <i>1:55</i> a.m. p.m.
Date Out <i>10/13/10</i>	Time Out: <i>9:35</i> a.m. p.m.
Coupon # <i>67999</i>	Tracking # <i>02697</i>
Serial #	

Industrial
 ERM
 Preservation
 CIF

PURAFIL
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
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Fx: (770) 263-6922 • www.purafil.com

CCC Panel # P67999
ISA Class G2
Moderate

Copper Corrosion
362 Å/30 Days
Silver Corrosion
415 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67999

The electrolytic reduction analysis on Corrosion Classification Coupon #P67999 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

Displaying Page 1 [Display Page 2](#)

PURAFIL CCC # P67999 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	303 Å	405 Å	530 Å	
Unknowns	59 Å	79 Å	104 Å	
Totals	362 Å	484 Å	634 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	415 Å	5051 Å	25256 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	415 Å	5051 Å	25256 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

