

PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 116130

Sales Order #: C002697

CCC Panel #: P67976

Date In: 21-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 14

Room Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		116130	
Address			
Room/Area I.D.			
Date In	9/21/10	Time In:	a.m. 11:30 p.m.
Date Out	10/5/10	Time Out:	a.m. 15:10 p.m.
Coupon #	P67976	Tracking #	02697
Serial #			
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF			

PURAFIL
First in clean air

2654 Weaver Way • Doraville, Georgia 30340
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CCC Panel # P67976
ISA Class G2
Moderate

Copper Corrosion
375 Å/30 Days
Silver Corrosion
541 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67976

The electrolytic reduction analysis on Corrosion Classification Coupon #P67976 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 # P67976 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	284 Å	380 Å	496 Å	
Cu ₂ O	91 Å	122 Å	159 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	375 Å	502 Å	655 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	541 Å	6589 Å	32943 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	541 Å	6589 Å	32943 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

