

PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115708

Sales Order #: C002697

CCC Panel #: P67963

Date In: 23-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 14

Room Area ID: Living Room

Reference #:

115708

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. <i>Living Room</i>	
Date In <i>9/23/10</i>	Time In: <i>16:45</i> a.m. p.m.
Date Out <i>10/7/10</i>	Time Out: <i>9:15</i> a.m. p.m.
Coupon # <i>67963</i>	Tracking # <i>02697</i>
Serial #	
<input type="checkbox"/> Industrial	<input type="checkbox"/> ERM
<input type="checkbox"/> Preservation	<input type="checkbox"/> CIF

PURAFIL
First in clean air

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CCC Panel # P67963

ISA Class G1

Mild

Copper Corrosion

249 Å/30 Days

Silver Corrosion

424 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67963

The electrolytic reduction analysis on Corrosion Classification Coupon #P67963 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

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 # P67963 Analysis Results

	Corrosion Film Composition Projections			Gold Coupon - Magnified 20x
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	249 Å	332 Å	434 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	249 Å	332 Å	434 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	424 Å	5161 Å	25806 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	424 Å	5161 Å	25806 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

