

PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115594

Sales Order #: C002697

CCC Panel #: P67945

Date In: 22-Sep-2010

Date Out: 06-Oct-2010

Days In Service: 14

Room Area ID: Outdoors

Reference #:

115594

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. <i>Outdoors</i>	
Date In <i>9/22/10</i>	Time In: <i>17:00</i> a.m. p.m.
Date Out <i>10/6/10</i>	Time Out: <i>11:05</i> a.m. p.m.
Coupon # <i>67945</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 # P67945
ISA Class G2
Moderate

Copper Corrosion
832 Å/30 Days
Silver Corrosion
764 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67945

The electrolytic reduction analysis on Corrosion Classification Coupon #P67945 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. 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 # P67945 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	364 Å	1269 Å	2837 Å	
Unknowns	468 Å	1634 Å	3653 Å	
Totals	832 Å	2903 Å	6490 Å	
Silver Films				
AgCl	62 Å	757 Å	3785 Å	
Ag ₂ S	702 Å	8541 Å	42704 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	764 Å	9298 Å	46489 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

