

PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115909

Sales Order #: C002697

CCC Panel #: P67928

Date In: 29-Sep-2010

Date Out: 13-Oct-2010

Days In Service: 14

Room Area ID: Outdoors

Reference #:

115909

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. <i>Outdoors</i>	
Date In <i>9/29/10</i>	Time In: <i>10:55</i> a.m. p.m.
Date Out <i>10/13/10</i>	Time Out: <i>9:35</i> a.m. p.m.
Coupon # <i>67928</i>	Tracking # <i>02697</i>
Serial #	

Industrial
 ERM
 Preservation
 CIF

PURAFIL
 First-Inc Clean Air

2654 Weaver Way • Doraville, Georgia 30340
 Ph: (770) 662-8545 • (800) 222-6167
 Fx: (770) 263-6922 • www.purafil.com

CCC Panel # P67928
ISA Class G2
Moderate

Copper Corrosion
511 Å/30 Days
Silver Corrosion
398 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67928

The electrolytic reduction analysis on Corrosion Classification Coupon #P67928 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

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922

Email: purafil@purafil.com / Internet: http://www.purafil.com

Displaying Page 1 [Display Page 2](#)

PURAFIL CCC # P67928 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	325 Å	659 Å	1127 Å	
Unknowns	186 Å	378 Å	646 Å	
Totals	511 Å	1037 Å	1773 Å	
Silver Films				
AgCl	81 Å	984 Å	4921 Å	
Ag ₂ S	317 Å	3856 Å	19278 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	398 Å	4840 Å	24199 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

