

PURAFIL ENVIRONMENTAL CORROSION REPORT

20-Oct-2010

Company: 115828

Sales Order #: C002687

CCC Panel #: P67635

Date In: 24-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 13

Room Area ID: Outdoors

Reference #:

DO NOT TOUCH METAL COUPON

Corr. Classification Coupon	
Company 115828	
Address	
Room/Area I.D. <i>Outdoors</i>	
Date In <i>9/24/10</i>	Time In: <i>11:30</i> a.m. p.m.
Date Out <i>10/7/10</i>	Time Out: <i>14:45</i> a.m. p.m.
Coupon # <i>607635</i>	Tracking # <i>02687</i>
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	
PURAFIL First. In clean air.	
<small>2654 Weaver Way • Doraville, Georgia 30340 Ph: (770) 662-8545 • (800) 222-6367 Fx: (770) 263-6922 • www.purafil.com</small>	

CCC Panel # P67635
ISA Class G2
Moderate

Copper Corrosion
757 Å/30 Days
Silver Corrosion
466 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67635

The electrolytic reduction analysis on Corrosion Classification Coupon #P67635 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

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PURAFIL CCC # P67635 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	432 Å	1507 Å	3370 Å	
Unknowns	325 Å	1135 Å	2538 Å	
Totals	757 Å	2642 Å	5908 Å	
Silver Films				
AgCl	67 Å	815 Å	4076 Å	
Ag ₂ S	399 Å	4862 Å	24309 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	466 Å	5677 Å	28385 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

