

PURAFIL ENVIRONMENTAL CORROSION REPORT

20-Oct-2010

Company: 116132

Sales Order #: C002697

CCC Panel #: P68010

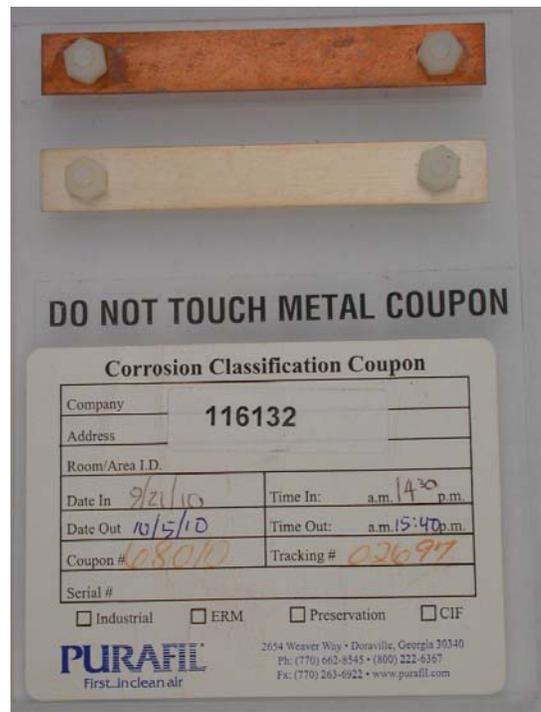
Date In: 21-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 14

Room Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		116132	
Address			
Room/Area I.D.			
Date In	9/21/10	Time In:	a.m. 14:30 p.m.
Date Out	10/5/10	Time Out:	a.m. 15:40 p.m.
Coupon #	P68010	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
Ph: (770) 662-8545 • (800) 222-6367
Fic: (770) 263-6922 • www.purafil.com

CCC Panel # P68010
ISA Class GX
Severe

Copper Corrosion
2775 Å/30 Days

Silver Corrosion
614 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68010

The electrolytic reduction analysis on Corrosion Classification Coupon #P68010 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

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 # P68010 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	882 Å	2103 Å	4703 Å	
Unknowns	1893 Å	4513 Å	10092 Å	
Totals	2775 Å	6616 Å	14795 Å	
Silver Films				
AgCl	93 Å	1136 Å	5678 Å	
Ag ₂ S	521 Å	6345 Å	31723 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	614 Å	7481 Å	37401 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

