

PURAFIL ENVIRONMENTAL CORROSION REPORT

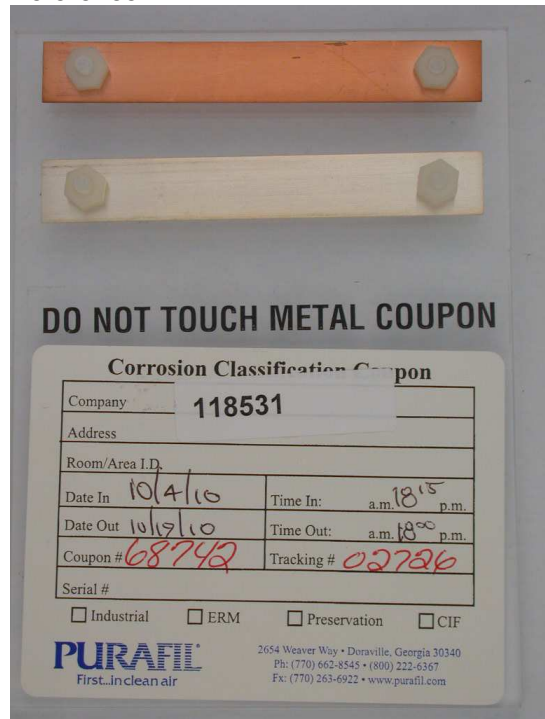
05-Nov-2010

Company: 118531

Sales Order #: C002726
CCC Panel #: P68742
Date In: 04-Oct-2010
Date Out: 19-Oct-2010
Days In Service: 15

Room/Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company 118531	
Address	
Room/Area I.D.	
Date In 10/4/10	Time In: a.m. 18¹⁵ p.m.
Date Out 10/19/10	Time Out: a.m. 18⁰⁰ p.m.
Coupon # 68742	Tracking # 02736
Serial #	

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PURAFIL
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
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Fx: (770) 263-6922 • www.purafil.com

CCC Panel # P68742

ISA Class G2
Moderate

Copper Corrosion
371 Å/30 Days

Silver Corrosion
329 Å/30 Days

(see next page for complete
analysis)

Summary for PURAFIL CCC # P68742

The electrolytic reduction analysis on Corrosion Classification Coupon #P68742 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
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Email: purafil@purafil.com / Internet: <http://www.purafil.com>

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PURAFIL CCC # P68742 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	296 Å	401 Å	524 Å	
Unknowns	75 Å	102 Å	133 Å	
Totals	371 Å	503 Å	657 Å	
Silver Films				
AgCl	58 Å	707 Å	3533 Å	
Ag ₂ S	271 Å	3302 Å	16512 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	329 Å	4009 Å	20045 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

