

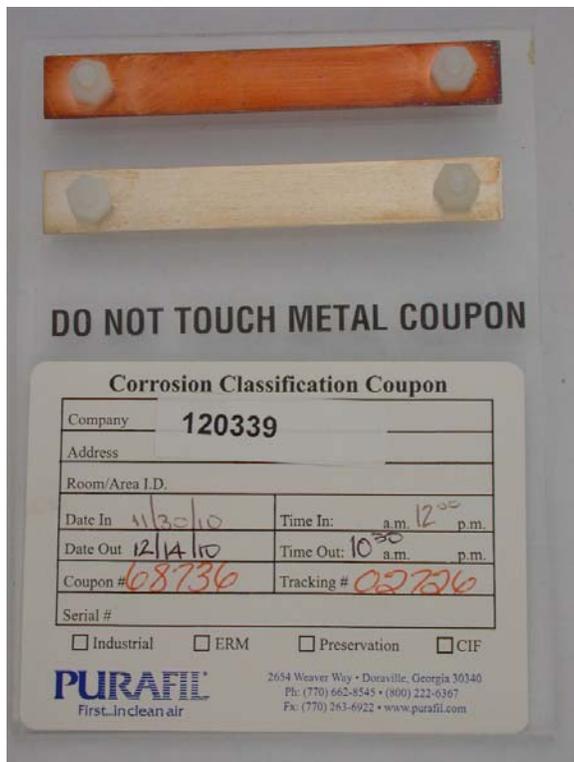
PURAFIL ENVIRONMENTAL CORROSION REPORT

18-Jan-2011

Company: 120339

Sales Order #: C002726
CCC Panel #: P68736
Date In: 30-Nov-2010
Date Out: 14-Dec-2010
Days In Service: 14

Room/Area ID:
Reference #:



CCC Panel # P68736
ISA Class G2 Moderate
Copper Corrosion 632 Å/30 Days
Silver Corrosion 374 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68736

The electrolytic reduction analysis on Corrosion Classification Coupon #P68736 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

PURAFIL CCC # P68736 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	156 Å	544 Å	1217 Å	
Unknowns	476 Å	1661 Å	3715 Å	
Totals	632 Å	2205 Å	4932 Å	
Silver Films				
AgCl	93 Å	1136 Å	5678 Å	
Ag ₂ S	281 Å	3416 Å	17082 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	374 Å	4552 Å	22760 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

