

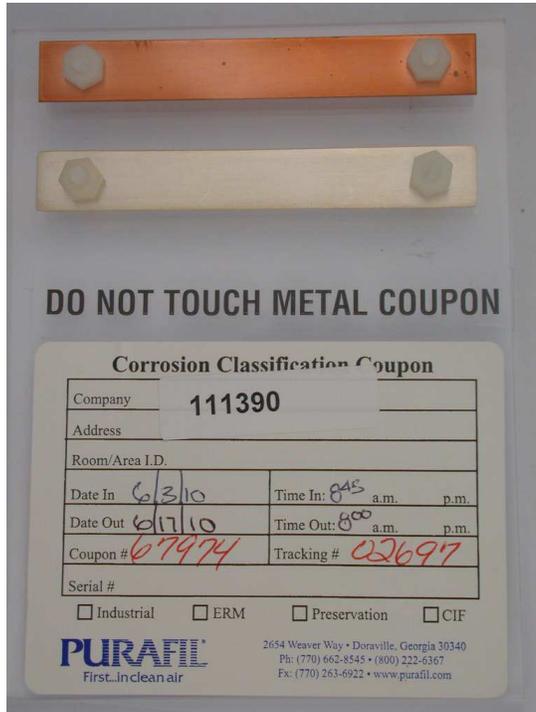
PURAFIL ENVIRONMENTAL CORROSION REPORT

25-Jun-2010

Company: 111390

Sales Order #: C002697
CCC Panel #: P67974
Date In: 03-Jun-2010
Date Out: 17-Jun-2010
Days In Service: 14

Room Area ID:
Reference #:



CCC Panel # P67974

ISA Class G2
Moderate

Copper Corrosion
324 Å/30 Days

Silver Corrosion
244 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67974

The electrolytic reduction analysis on Corrosion Classification Coupon #P67974 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

PURAFIL CCC # P67974 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	114 Å	152 Å	199 Å	
Unknowns	210 Å	280 Å	366 Å	
Totals	324 Å	432 Å	565 Å	
Silver Films				
AgCl	44 Å	530 Å	2650 Å	
Ag ₂ S	200 Å	2440 Å	12201 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	244 Å	2970 Å	14851 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

