

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110292

Sales Order #: C002687
 CCC Panel #: P67636
 Date In: 05-May-2010
 Date Out: 20-May-2010
 Days In Service: 15

Room Area ID:
 Reference #:



CCC Panel # P67636
ISA Class G2 Moderate
Copper Corrosion 901 Å/30 Days
Silver Corrosion 283 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67636

The electrolytic reduction analysis on Corrosion Classification Coupon #P67636 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

Displaying Page 1 [Display Page 2](#)

PURAFIL CCC # P67636 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	211 Å	735 Å	1644 Å	
Unknowns	690 Å	2407 Å	5383 Å	
Totals	901 Å	3142 Å	7027 Å	
Silver Films				
AgCl	49 Å	601 Å	3003 Å	
Ag ₂ S	120 Å	1458 Å	7288 Å	
Unknowns	114 Å	1385 Å	6927 Å	
Totals	283 Å	3444 Å	17218 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

