

PURAFIL ENVIRONMENTAL CORROSION REPORT

27-May-2010

Company: 110537

Sales Order #: C002682
 CCC Panel #: P67417
 Date In: 08-May-2010
 Date Out: 20-May-2010
 Days In Service: 12

Room Area ID:
 Reference #:

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
110537	
Address	
Room/Area I.D.	
Date In	Time In: a.m. p.m.
Date Out	Time Out: a.m. p.m.
Coupon # 67417	Tracking # 02682
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	

2654 Weaver Way • Doraville, Georgia 30340
 Ph: (770) 662-8545 • (800) 222-6367
 Fx: (770) 263-6922 • www.purafil.com

CCC Panel # P67417
ISA Class G2 Moderate
Copper Corrosion 962 Å/30 Days
Silver Corrosion 395 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67417

The electrolytic reduction analysis on Corrosion Classification Coupon #P67417 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 # P67417 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	362 Å	1262 Å	2822 Å	
Unknowns	600 Å	2093 Å	4681 Å	
Totals	962 Å	3355 Å	7503 Å	
Silver Films				
AgCl	91 Å	1104 Å	5520 Å	
Ag ₂ S	210 Å	2562 Å	12811 Å	
Unknowns	94 Å	1144 Å	5718 Å	
Totals	395 Å	4810 Å	24049 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

