

PURAFIL ENVIRONMENTAL CORROSION REPORT

Company: 118707

02-Dec-2010

Sales Order #: C002726
CCC Panel #: P68769
Date In: 01-Nov-2010
Date Out: 15-Nov-2010
Days In Service: 14

Room/Area ID:
Reference #:

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon	
Company <u>118707</u>	
Address <u>118707</u>	
Room/Area I.D. _____	
Date In <u>11/1/10</u>	Time In: a.m. <u>10¹⁵</u> p.m.
Date Out <u>11/15/10</u>	Time Out: a.m. <u>17³⁵</u> p.m.
Coupon # <u>68769</u>	Tracking # <u>02726</u>
Serial # _____	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	
<small>2654 Weaver Way • Doraville, Georgia 30340 Ph: (770) 662-8545 • (800) 222-6367 Fx: (770) 263-6922 • www.purafil.com</small>	

CCC Panel # P68769

ISA Class G2
Moderate

Copper Corrosion
313 Å/30 Days

Silver Corrosion
238 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68769

The electrolytic reduction analysis on Corrosion Classification Coupon #P68769 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 # P68769 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	82 Å	109 Å	143 Å	
Unknowns	231 Å	308 Å	403 Å	
Totals	313 Å	417 Å	546 Å	
Silver Films				
AgCl	50 Å	606 Å	3028 Å	
Ag ₂ S	188 Å	2294 Å	11469 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	238 Å	2900 Å	14497 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

