

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110461

Sales Order #: C002682
 CCC Panel #: P67445
 Date In: 06-May-2010
 Date Out: 20-May-2010
 Days In Service: 14

Room Area ID:
 Reference #:

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		110461	
Address		110461	
Room/Area I.D.			
Date In	Time In:	a.m.	p.m.
Date Out	Time Out:	a.m.	p.m.
Coupon #	Tracking #	67445	02682
Serial #			

Industrial
 ERM
 Preservation
 CIF

PURAFIL
 First...in clean air

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

CCC Panel # P67445
ISA Class GX
Severe

Copper Corrosion
3714 Å/30 Days
Silver Corrosion
997 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67445

The electrolytic reduction analysis on Corrosion Classification Coupon #P67445 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

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

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PURAFIL CCC # P67445 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	462 Å	1102 Å	2464 Å	
Unknowns	3252 Å	7753 Å	17335 Å	
Totals	3714 Å	8855 Å	19799 Å	
Silver Films				
AgCl	280 Å	3407 Å	17033 Å	
Ag ₂ S	581 Å	7077 Å	35383 Å	
Unknowns	136 Å	1652 Å	8262 Å	
Totals	997 Å	12136 Å	60678 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

