

PURAFIL ENVIRONMENTAL CORROSIONITY REPORT

11-Jun-2010

Company: 111004

Sales Order #: C002682

CCC Panel #: P67443

Date In: 20-May-2010

Date Out: 03-Jun-2010

Days In Service: 14

Room Area ID:

Reference #:

CCC Panel # P67443

ISA Class G2

Moderate

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. 111004	
Date In 5/20/10	Time In: a.m. 1:30 p.m.
Date Out 6/3/10	Time Out: 8:10 a.m. p.m.
Coupon # 67443	Tracking # 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

Copper Corrosion

301 Å/30 Days

Silver Corrosion

220 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67443

The electrolytic reduction analysis on Corrosion Classification Coupon #P67443 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

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Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P67443 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	70 Å	93 Å	122 Å	
Unknowns	231 Å	308 Å	403 Å	
Totals	301 Å	401 Å	525 Å	
Silver Films				
AgCl	31 Å	379 Å	1893 Å	
Ag ₂ S	120 Å	1464 Å	7321 Å	
Unknowns	69 Å	840 Å	4201 Å	
Totals	220 Å	2683 Å	13415 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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