

PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 116166

Sales Order #: C002697

CCC Panel #: P67943

Date In: 24-Sep-2010

Date Out: 07-Oct-2010

Days In Service: 13

Room Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		116166	
Address			
Room/Area I.D.			
Date In	9/24/10	Time In:	8:00 a.m. p.m.
Date Out	10/7/10	Time Out:	16:20 p.m. p.m.
Coupon #	67943	Tracking #	02697
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 # P67943
ISA Class G1
Mild

Copper Corrosion
275 Å/30 Days
Silver Corrosion
953 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67943

The electrolytic reduction analysis on Corrosion Classification Coupon #P67943 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

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 # P67943 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	219 Å	289 Å	378 Å	
Cu ₂ O	56 Å	74 Å	97 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	275 Å	363 Å	475 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	755 Å	9198 Å	45989 Å	
Unknowns	198 Å	2413 Å	12065 Å	
Totals	953 Å	11611 Å	58054 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

