

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-Oct-2010

Company: 116108

Sales Order #: C002697

CCC Panel #: P67960

Date In: 20-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 15

Room Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company: 116108	
Address:	
Room/Area I.D.:	
Date In: 9/20/10	Time In: 4:00 p.m.
Date Out: 10/5/10	Time Out: 4:00 p.m.
Coupon #: 67960	Tracking #: 02697
Serial #:	

Industrial
 IIRM
 Preservation
 CIF

PURAFIL
First, understand air

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CCC Panel # P67960

ISA Class G1
Mild

Copper Corrosion
243 Å/30 Days

Silver Corrosion
1422 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67960

The electrolytic reduction analysis on Corrosion Classification Coupon #P67960 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

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

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PURAFIL CCC # P67960 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	243 Å	328 Å	429 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	243 Å	328 Å	429 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	1422 Å	17309 Å	86547 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	1422 Å	17309 Å	86547 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

