

PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

14-Jun-2010

Company: 111033

Sales Order #: C002697
CCC Panel #: P67939
Date In: 20-May-2010
Date Out: 04-Jun-2010
Days In Service: 15

Room Area ID:
Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address 111033	
Room/Area I.D.	
Date In 5/20/10	Time In: a.m. 2:00 p.m.
Date Out 6/4/10	Time Out: 11:10 a.m. p.m.
Coupon # 67939	Tracking # 02697
Serial #	

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PURAFIL
First...in clean air

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CCC Panel # P67939

ISA Class G1
Mild

Copper Corrosion
269 Å/30 Days

Silver Corrosion
636 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67939

The electrolytic reduction analysis on Corrosion Classification Coupon #P67939 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>

PURAFIL CCC # P67939 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
Projections				
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	191 Å	259 Å	338 Å	
Cu ₂ O	78 Å	106 Å	138 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	269 Å	365 Å	476 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	636 Å	7744 Å	38718 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	636 Å	7744 Å	38718 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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