

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110538

Sales Order #: C002682
 CCC Panel #: P67426
 Date In: 08-May-2010
 Date Out: 20-May-2010
 Days In Service: 12

Room Area ID:
 Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		110538	
Address			
Room/Area I.D.			
Date In	Time In:	a.m.	p.m.
Date Out	Time Out:	a.m.	p.m.
Coupon #	67426		
Tracking #	02682		
Serial #			
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF			


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CCC Panel # P67426
ISA Class G1 Mild
Copper Corrosion 156 Å/30 Days
Silver Corrosion 325 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67426

The electrolytic reduction analysis on Corrosion Classification Coupon #P67426 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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PURAFIL CCC # P67426 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	156 Å	203 Å	266 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	156 Å	203 Å	266 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	215 Å	2619 Å	13096 Å	
Unknowns	110 Å	1340 Å	6698 Å	
Totals	325 Å	3959 Å	19794 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

