

PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

29-Jun-2010

Company: 111338

Sales Order #: C002697
CCC Panel #: P68000
Date In: 04-Jun-2010
Date Out: 18-Jun-2010
Days In Service: 14

Room Area ID:
Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company		111338	
Address			
Room/Area I.D.			
Date In	6/4/10	Time In	11:45 a.m. p.m.
Date Out	6/18/10	Time Out	10:50 a.m. p.m.
Coupon #	68000	Tracking #	02697
Serial #			

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PURAFIL
First...In clean air

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CCC Panel # P68000

ISA Class G1
Mild

Copper Corrosion
237 Å/30 Days

Silver Corrosion
1002 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68000

The electrolytic reduction analysis on Corrosion Classification Coupon #P68000 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
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PURAFIL CCC # P68000 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	191 Å	255 Å	334 Å	
Cu ₂ O	46 Å	62 Å	81 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	237 Å	317 Å	415 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	1002 Å	12201 Å	61006 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	1002 Å	12201 Å	61006 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

