

PURAFIL ENVIRONMENTAL CORROSION REPORT

02-Dec-2010

Company: 118674

Sales Order #: C002726
CCC Panel #: P68846
Date In: 01-Nov-2010
Date Out: 15-Nov-2010
Days In Service: 14

Room/Area ID:
Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	118674		
Address			
Room/Area I.D.			
Date In	11/1/10	Time In:	a.m. 12 ³⁰ p.m.
Date Out	11/15/10	Time Out:	10 ⁴⁰ a.m. p.m.
Coupon #	68846	Tracking #	02726
Serial #			

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PURAFIL
First...in clean air

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CCC Panel # P68846

ISA Class G1
Mild

Copper Corrosion
254 Å/30 Days

Silver Corrosion
361 Å/30 Days

(see next page for complete
analysis)

Summary for PURAFIL CCC # P68846

The electrolytic reduction analysis on Corrosion Classification Coupon #P68846 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 # P68846 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	0 Å	0 Å	0 Å	
Cu ₂ O	160 Å	214 Å	280 Å	
Unknowns	94 Å	126 Å	165 Å	
Totals	254 Å	340 Å	445 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	361 Å	4392 Å	21962 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	361 Å	4392 Å	21962 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

