

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-Oct-2010

Company: 115827

Sales Order #: C002697

CCC Panel #: P68005

Room Area ID: Supply

Date In: 24-Sep-2010

Reference #:

Date Out: 07-Oct-2010

Days In Service: 13



DO NOT TOUCH METAL COUPON

Corros		pon	
Company	115827		
Address			
Room/Area I.D.	Supply		
Date In	9/24/10	Time In	17:30 p.m.
Date Out	10/7/10	Time Out	4:55 p.m.
Coupon #	P68005	Tracking #	C02697
Serial #			
<input type="checkbox"/> Industrial	<input type="checkbox"/> ERM	<input type="checkbox"/> Preservation	<input type="checkbox"/> CIP

PURAFIL
Env. In. Chem. Int.

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CCC Panel # P68005

ISA Class G2
Moderate

Copper Corrosion
550 Å/30 Days

Silver Corrosion
8289 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68005

The electrolytic reduction analysis on Corrosion Classification Coupon #P68005 shows the presence of moderate concentrations of contaminants in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb and the sulfur dioxide level between 10 and 100 ppb. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

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 # P68005 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	416 Å	832 Å	1422 Å	
Cu ₂ O	134 Å	268 Å	459 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	550 Å	1100 Å	1881 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	8289 Å	100913 Å	504566 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	8289 Å	100913 Å	504566 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

