

PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Oct-2010

Company: 115496

Sales Order #: C002726
 CCC Panel #: P68766
 Date In: 21-Sep-2010
 Date Out: 06-Oct-2010
 Days In Service: 15

Room Area ID:
 Reference #:

115496

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address	
Room/Area I.D. <i>Living Room</i>	
Date In <i>9/2/10</i>	Time In: <i>10:10</i> a.m. p.m.
Date Out <i>10/6/10</i>	Time Out: <i>12:45</i> a.m. p.m.
Coupon # <i>68766</i>	Tracking # <i>02726</i>
Serial #	

Industrial
 ERM
 Preservation
 CIF

PURAFIL
 First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
 Ph: (770) 662-8545 • (800) 222-6367
 Fax: (770) 263-6922 • www.purafil.com

CCC Panel # P68766

ISA Class G1
 Mild

Copper Corrosion
 206 Å/30 Days

Silver Corrosion
 539 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68766

The electrolytic reduction analysis on Corrosion Classification Coupon #P68766 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

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922
 Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P68766 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	206 Å	278 Å	364 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	206 Å	278 Å	364 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	539 Å	6559 Å	32797 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	539 Å	6559 Å	32797 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

