## PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

20-Dec-2010

**Company:** 116769

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68767

 Date In:
 15-Nov-2010

 Date Out:
 29-Nov-2010

 Days In Service:
 14

**CCC Panel # P68767** 

ISA Class G2 Moderate

Copper Corrosion 315 Å/30 Days

Silver Corrosion 876 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P68767

The electrolytic reduction analysis on Corrosion Classification Coupon #P68767 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

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

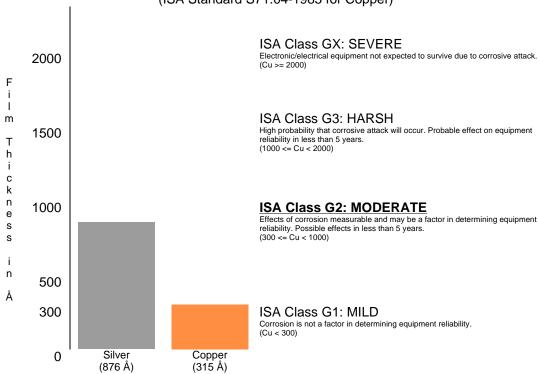
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## PURAFIL CCC # P68767 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	30 Days	<u>1 Year</u>	<u>5 Year</u>	ag.iiilod 20x
Copper Films				
Cu <sub>2</sub> S	137 Å	183 Å	240 Å	
Cu <sub>2</sub> O	59 Å	79 Å	103 Å	
Unknowns	119 Å	159 Å	208 Å	
Totals	315 Å	421 Å	551 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	876 Å	10664 Å	53319 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	876 Å	10664 Å	53319 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

## **Equipment Reliability Correlation**

(ISA Standard S71.04-1985 for Copper)



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