

# 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

DO NOT TOUCH METAL COUPON

**Corrosion Classification Coupon**

Company	116769		
Address			
Room/Area I.D.			
Date In	11/15/10	Time In:	a.m. 18 <sup>00</sup> p.m.
Date Out	11/29/10	Time Out:	a.m. 17 <sup>45</sup> p.m.
Coupon #	68767	Tracking #	02726
Serial #			

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**PURAFIL**  
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**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

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Email: purafil@purafil.com / Internet: <http://www.purafil.com>

## PURAFIL CCC # P68767 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
<b>Copper Films</b>				
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	
<b>Silver Films</b>				
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	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

