

# PURAFIL ENVIRONMENTAL CORROSION REPORT

10-Nov-2010

**Company:** 118500

**Sales Order #:** C002726  
**CCC Panel #:** P68838  
**Date In:** 04-Oct-2010  
**Date Out:** 19-Oct-2010  
**Days In Service:** 15

**Room/Area ID:**  
**Reference #:**



**CCC Panel # P68838**

**ISA Class G2**  
Moderate

**Copper Corrosion**  
461 Å/30 Days

**Silver Corrosion**  
610 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P68838

The electrolytic reduction analysis on Corrosion Classification Coupon #P68838 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, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 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 # P68838 Analysis Results**

<b>Corrosion Film Composition</b>				<b>Gold Coupon - Magnified 20x</b>
	Projections			
	30 Days	1 Year	5 Year	
<b>Copper Films</b>				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	277 Å	568 Å	972 Å	
Unknowns	184 Å	377 Å	645 Å	
Totals	461 Å	945 Å	1617 Å	
<b>Silver Films</b>				
AgCl	58 Å	707 Å	3533 Å	
Ag <sub>2</sub> S	552 Å	6719 Å	33594 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	610 Å	7426 Å	37127 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

