

# PURAFIL ENVIRONMENTAL CORROSION REPORT

10-Jun-2010

Company: 110978

Sales Order #: C002697  
 CCC Panel #: P67961  
 Date In: 19-May-2010  
 Date Out: 02-Jun-2010  
 Days In Service: 14

Room Area ID:  
 Reference #:

**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address <b>110978</b>	
Room/Area I.D.	
Date In <b>5/19/10</b>	Time In: a.m. <b>6<sup>00</sup></b> p.m.
Date Out <b>6/2/10</b>	Time Out: a.m. <b>6<sup>00</sup></b> p.m.
Coupon # <b>67961</b>	Tracking # <b>020697</b>
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	

**PURAFIL**  
First...in clean air

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<b>CCC Panel # P67961</b>
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<b>ISA Class G2</b> Moderate
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<b>Copper Corrosion</b> 632 Å/30 Days
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<b>Silver Corrosion</b> 190 Å/30 Days
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(see next page for complete analysis)

### Summary for PURAFIL CCC # P67961

The electrolytic reduction analysis on Corrosion Classification Coupon #P67961 shows the presence of moderate concentrations of contaminants and high/variable humidity 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 presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. 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 # P67961 Analysis Results**

	Corrosion Film Composition Projections			Gold Coupon - Magnified 20x
	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	124 Å	434 Å	971 Å	
Unknowns	508 Å	1772 Å	3962 Å	
Totals	632 Å	2206 Å	4933 Å	
<b>Silver Films</b>				
AgCl	31 Å	379 Å	1893 Å	
Ag <sub>2</sub> S	159 Å	1938 Å	9688 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	190 Å	2317 Å	11581 Å	
<b>Gold Pore Corrosion:</b> Note: 1000 Å = 0.1 micron				

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

