

# PURAFIL ENVIRONMENTAL CORROSION REPORT

20-Dec-2010

Company: 116756

Sales Order #: C002504

CCC Panel #: P63418

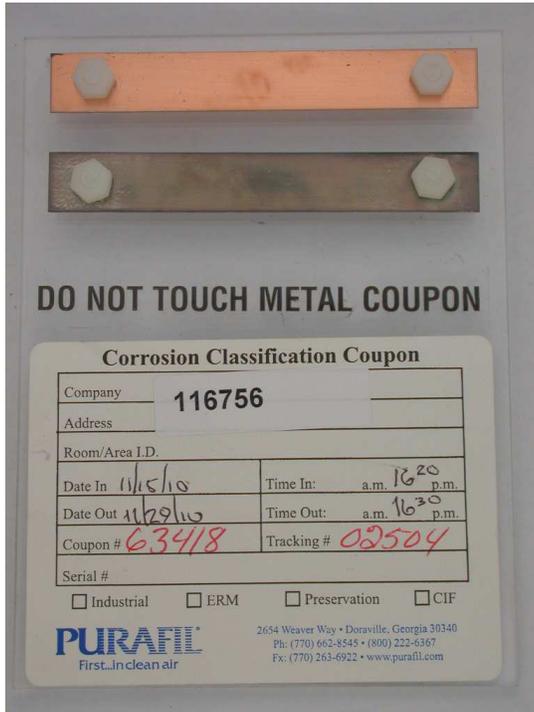
Date In: 15-Nov-2010

Date Out: 29-Nov-2010

Days In Service: 14

Room/Area ID:

Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company		116756	
Address			
Room/Area I.D.			
Date In	11/15/10	Time In:	a.m. 16 <sup>20</sup> p.m.
Date Out	11/29/10	Time Out:	a.m. 16 <sup>30</sup> p.m.
Coupon #	63418	Tracking #	02504
Serial #			
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF			


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 Fx: (770) 263-6922 • www.purafil.com

<b>CCC Panel # P63418</b>
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<b>ISA Class G2</b>
Moderate

<b>Copper Corrosion</b>
498 Å/30 Days

<b>Silver Corrosion</b>
2205 Å/30 Days

(see next page for complete analysis)

### Summary for PURAFIL CCC # P63418

The electrolytic reduction analysis on Corrosion Classification Coupon #P63418 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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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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Displaying Page 1    [Display Page 2](#)

**PURAFIL CCC # P63418 Analysis Results**

<b>Corrosion Film Composition</b>				<b>Gold Coupon - Magnified 20x</b>
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
<b>Copper Films</b>				
Cu <sub>2</sub> S	412 Å	834 Å	1426 Å	
Cu <sub>2</sub> O	86 Å	174 Å	298 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	498 Å	1008 Å	1724 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	2205 Å	26843 Å	134213 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	2205 Å	26843 Å	134213 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

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

