

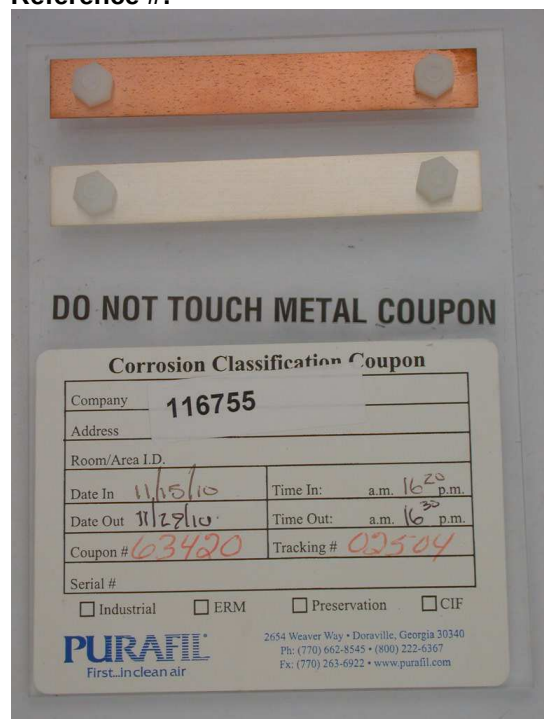
PURAFIL ENVIRONMENTAL CORROSION REPORT

17-Dec-2010

Company: 116755

Sales Order #: C002504
CCC Panel #: P63420
Date In: 15-Nov-2010
Date Out: 29-Nov-2010
Days In Service: 14

Room/Area ID:
Reference #:

**CCC Panel # P63420**

ISA Class G1
Mild

Copper Corrosion
283 Å/30 Days

Silver Corrosion
171 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P63420

The electrolytic reduction analysis on Corrosion Classification Coupon #P63420 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. The analysis shows only a trace of chlorine which is not expected to exceed 1 ppb. Corrosion is not a factor in determining equipment reliability in this environment.

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 # P63420 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	185 Å	248 Å	324 Å	
Unknowns	98 Å	131 Å	171 Å	
Totals	283 Å	379 Å	495 Å	
Silver Films				
AgCl	31 Å	379 Å	1893 Å	
Ag ₂ S	140 Å	1708 Å	8541 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	171 Å	2087 Å	10434 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

