

PURAFIL ENVIRONMENTAL CORROSIONITY REPORT

24-Jun-2010

Company: 111324

Sales Order #: C002697
CCC Panel #: P67983
Date In: 04-Jun-2010
Date Out: 18-Jun-2010
Days In Service: 14

Room Area ID:
Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	111324		
Address			
Room/Area I.D.			
Date In	6/4/10	Time In:	8:10 a.m. p.m.
Date Out	6/18/10	Time Out:	8:00 a.m. p.m.
Coupon #	67983	Tracking #	02697
Serial #			

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PURAFIL
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
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CCC Panel # P67983

ISA Class G2
Moderate

Copper Corrosion
488 Å/30 Days

Silver Corrosion
384 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67983

The electrolytic reduction analysis on Corrosion Classification Coupon #P67983 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
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PURAFIL CCC # P67983 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu ₂ S	222 Å	451 Å	771 Å	
Cu ₂ O	131 Å	266 Å	454 Å	
Unknowns	135 Å	273 Å	467 Å	
Totals	488 Å	990 Å	1692 Å	
Silver Films				
AgCl	37 Å	454 Å	2271 Å	
Ag ₂ S	347 Å	4222 Å	21108 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	384 Å	4676 Å	23379 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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