

PURAFIL ENVIRONMENTAL CORROSION REPORT

20-Dec-2010

Company: 116819

Sales Order #: C002726
CCC Panel #: P68762
Date In: 16-Nov-2010
Date Out: 30-Nov-2010
Days In Service: 14

Room/Area ID:
Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company 116819	
Address	
Room/Area I.D.	
Date In 11/16/10	Time In: 12:25 a.m. 12:25 p.m.
Date Out 11/30/10	Time Out: 11:35 a.m. 11:35 p.m.
Coupon # 68762	Tracking # 02726
Serial #	

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PURAFIL
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340
Ph: (770) 662-8545 • (800) 222-6367
Fcx: (770) 263-6922 • www.purafil.com

CCC Panel # P68762

ISA Class G2
Moderate

Copper Corrosion
866 Å/30 Days

Silver Corrosion
481 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68762

The electrolytic reduction analysis on Corrosion Classification Coupon #P68762 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 # P68762 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
Copper Films	Projections			
	30 Days	1 Year	5 Year	
Cu ₂ S	0 Å	0 Å	0 Å	Silver Films
Cu ₂ O	469 Å	1636 Å	3658 Å	
Unknowns	397 Å	1384 Å	3096 Å	
Totals	866 Å	3020 Å	6754 Å	
AgCl	62 Å	757 Å	3785 Å	Gold Pore Corrosion:
Ag ₂ S	281 Å	3416 Å	17082 Å	
Unknowns	138 Å	1680 Å	8402 Å	
Totals	481 Å	5853 Å	29269 Å	
Note: 1000 Å = 0.1 micron				

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

