

PURAFIL ENVIRONMENTAL CORROSION REPORT

26-Oct-2010

Company: 116111

Sales Order #: C002697

CCC Panel #: P68021

Date In: 20-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 15

Room Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company	
Address 116111	
Room/Area I.D.	
Date In 9/25/10	Time In: a.m. 17³⁰ p.m.
Date Out 10/5/10	Time Out: a.m. 17:52 p.m.
Coupon # 68021	Tracking # 02697
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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CCC Panel # P68021
ISA Class G3
Harsh

Copper Corrosion
1036 Å/30 Days
Silver Corrosion
528 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68021

The electrolytic reduction analysis on Corrosion Classification Coupon #P68021 shows the presence of high concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 10 and 50 ppb, sulfur dioxide between 100 and 300 ppb, and chlorine between 2 and 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. There is a high probability that equipment reliability will be adversely affected due to corrosive attack.

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 # P68021 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	860 Å	3000 Å	6708 Å	
Cu ₂ O	176 Å	613 Å	1370 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	1036 Å	3613 Å	8078 Å	
Silver Films				
AgCl	116 Å	1413 Å	7066 Å	
Ag ₂ S	412 Å	5011 Å	25053 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	528 Å	6424 Å	32119 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

