

PURAFIL ENVIRONMENTAL CORROSION REPORT

22-Dec-2010

Company: 116770

Sales Order #: C002688
CCC Panel #: P67655
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 116770	
Address	
Room/Area I.D.	
Date In 11/15/10	Time In: a.m. 18⁰⁵ p.m.
Date Out 11/29/10	Time Out: a.m. 1740 p.m.
Coupon # 67655	Tracking # 02688
Serial #	

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PURAFIL
First in clean air

2654 Weaver Way • Doraville, Georgia 30340
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CCC Panel # P67655

ISA Class G2
Moderate

Copper Corrosion
335 Å/30 Days

Silver Corrosion
1603 Å/30 Days

(see next page for complete
analysis)

Summary for PURAFIL CCC # P67655

The electrolytic reduction analysis on Corrosion Classification Coupon #P67655 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 CCC # P67655 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	0 Å	0 Å	0 Å	
Cu ₂ O	276 Å	368 Å	481 Å	
Unknowns	59 Å	79 Å	104 Å	
Totals	335 Å	447 Å	585 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	1603 Å	19522 Å	97610 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	1603 Å	19522 Å	97610 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

