

PURAFIL ENVIRONMENTAL CORROSION REPORT

21-Oct-2010

Company: 115906
Room Area ID: Living Room
Reference #:

Sales Order #: C002697
CCC Panel #: P67951
Date In: 29-Sep-2010
Date Out: 13-Oct-2010
Days In Service: 14

CCC Panel # P67951**ISA Class G2**
Moderate**Copper Corrosion**
327 Å/30 Days**Silver Corrosion**
401 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67951

The electrolytic reduction analysis on Corrosion Classification Coupon #P67951 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 # P67951 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	236 Å	315 Å	412 Å	
Unknowns	91 Å	121 Å	159 Å	
Totals	327 Å	436 Å	571 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	401 Å	4880 Å	24402 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	401 Å	4880 Å	24402 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

