

PURAFIL ENVIRONMENTAL CORROSION REPORT

02-Jun-2010

Company: 110389

Sales Order #: C002682
 CCC Panel #: P67434
 Date In: 08-May-2010
 Date Out: 21-May-2010
 Days In Service: 13

Room Area ID:
 Reference #:



CCC Panel # P67434
ISA Class G2 Moderate
Copper Corrosion 586 Å/30 Days
Silver Corrosion 4458 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67434

The electrolytic reduction analysis on Corrosion Classification Coupon #P67434 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
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 tminegishi@eheinc.com

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PURAFIL CCC # P67434 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	427 Å	855 Å	1462 Å	
Cu ₂ O	159 Å	318 Å	544 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	586 Å	1173 Å	2006 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	4317 Å	52559 Å	262795 Å	
Unknowns	141 Å	1719 Å	8596 Å	
Totals	4458 Å	54278 Å	271391 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

