

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-May-2010

Company: 110388

Sales Order #: C002682
 CCC Panel #: P67431
 Date In: 08-May-2010
 Date Out: 21-May-2010
 Days In Service: 13

Room Area ID:
 Reference #:



CCC Panel # P67431
ISA Class G2 Moderate
Copper Corrosion 638 Å/30 Days
Silver Corrosion 467 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67431

The electrolytic reduction analysis on Corrosion Classification Coupon #P67431 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
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PURAFIL CCC # P67431 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	226 Å	790 Å	1766 Å	
Unknowns	412 Å	1437 Å	3212 Å	
Totals	638 Å	2227 Å	4978 Å	
Silver Films				
AgCl	50 Å	611 Å	3057 Å	
Ag ₂ S	281 Å	3416 Å	17082 Å	
Unknowns	136 Å	1659 Å	8294 Å	
Totals	467 Å	5686 Å	28433 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

