

PURAFIL ENVIRONMENTAL CORROSION REPORT

27-May-2010

Company: 110332

Sales Order #: C002682
 CCC Panel #: P67437
 Date In: 06-May-2010
 Date Out: 21-May-2010
 Days In Service: 15

Room Area ID:
 Reference #:



CCC Panel # P67437
ISA Class G3 Harsh
Copper Corrosion 1129 Å/30 Days
Silver Corrosion 320 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67437

The electrolytic reduction analysis on Corrosion Classification Coupon #P67437 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
 tminegishi@eheinc.com

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PURAFIL CCC # P67437 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	240 Å	839 Å	1875 Å	
Unknowns	889 Å	3103 Å	6938 Å	
Totals	1129 Å	3942 Å	8813 Å	
Silver Films				
AgCl	131 Å	1590 Å	7949 Å	
Ag ₂ S	120 Å	1458 Å	7288 Å	
Unknowns	69 Å	836 Å	4182 Å	
Totals	320 Å	3884 Å	19419 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

