

PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

28-May-2010

Company: 110508

Room Area ID:
Reference #:

Sales Order #: C002682
CCC Panel #: P67428
Date In: 05-May-2010
Date Out: 19-May-2010
Days In Service: 14



CCC Panel # P67428
ISA Class G2 Moderate
Copper Corrosion 327 Å/30 Days
Silver Corrosion 595 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67428

The electrolytic reduction analysis on Corrosion Classification Coupon #P67428 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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PURAFIL CCC # P67428 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	196 Å	262 Å	342 Å	
Cu ₂ O	131 Å	174 Å	228 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	327 Å	436 Å	570 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	517 Å	6296 Å	31479 Å	
Unknowns	78 Å	952 Å	4761 Å	
Totals	595 Å	7248 Å	36240 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

