

PURAFIL ENVIRONMENTAL CORROSION REPORT

29-Jun-2010

Company: 111308

Sales Order #: C002687
CCC Panel #: P67629
Date In: 03-Jun-2010
Date Out: 16-Jun-2010
Days In Service: 13

Room Area ID:
Reference #:

CCC Panel # P67629

ISA Class G2
Moderate



Copper Corrosion
761 Å/30 Days

Silver Corrosion
1887 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67629

The electrolytic reduction analysis on Corrosion Classification Coupon #P67629 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 # P67629 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	577 Å	2014 Å	4504 Å	
Cu ₂ O	122 Å	426 Å	953 Å	
Unknowns	62 Å	215 Å	482 Å	
Totals	761 Å	2655 Å	5939 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	1813 Å	22075 Å	110374 Å	
Unknowns	74 Å	905 Å	4524 Å	
Totals	1887 Å	22980 Å	114898 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

