

PURAFIL ENVIRONMENTAL CORROSION REPORT

19-Jan-2011

Company: 120324

Sales Order #: C002873
CCC Panel #: P72654
Date In: 30-Nov-2010
Date Out: 14-Dec-2010
Days In Service: 14

Room/Area ID:
Reference #:



CCC Panel # P72654
ISA Class G2 Moderate
Copper Corrosion 303 Å/30 Days
Silver Corrosion 882 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P72654

The electrolytic reduction analysis on Corrosion Classification Coupon #P72654 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 # P72654 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	222 Å	297 Å	389 Å	
Cu ₂ O	81 Å	108 Å	141 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	303 Å	405 Å	530 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	882 Å	10737 Å	53685 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	882 Å	10737 Å	53685 Å	

Gold Pore Corrosion:
Note: 1000 Å = 0.1 micron

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

