

PURAFIL ENVIRONMENTAL CORROSION REPORT

18-Jan-2011

Company: 120323

Sales Order #: C002873
CCC Panel #: P72653
Date In: 30-Nov-2010
Date Out: 14-Dec-2010
Days In Service: 14

Room/Area ID:
Reference #:



CCC Panel # P72653
ISA Class GX Severe
Copper Corrosion 2425 Å/30 Days
Silver Corrosion 303 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P72653

The electrolytic reduction analysis on Corrosion Classification Coupon #P72653 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

Your local representative for additional information and assistance is:
Environmental Health and Eng
117 Fourth Avenue, Needham MA 02494, USA
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PURAFIL CCC # P72653 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	0 Å	0 Å	0 Å	
Cu ₂ O	381 Å	908 Å	2031 Å	
Unknowns	2044 Å	4873 Å	10896 Å	
Totals	2425 Å	5781 Å	12927 Å	
Silver Films				
AgCl	62 Å	757 Å	3785 Å	
Ag ₂ S	241 Å	2928 Å	14641 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	303 Å	3685 Å	18426 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

