

PURAFIL ENVIRONMENTAL CORROSION REPORT

28-Oct-2010

Company: 115590

Sales Order #: C002697
CCC Panel #: P67949
Date In: 22-Sep-2010
Date Out: 06-Oct-2010
Days In Service: 14

Room Area ID: Living Room
Reference #:



CCC Panel # P67949

ISA Class G3
Harsh

Copper Corrosion
1455 Å/30 Days

Silver Corrosion
2397 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67949

The electrolytic reduction analysis on Corrosion Classification Coupon #P67949 shows the presence of high concentrations of contaminants in the environment tested. The hydrogen sulfide level is expected to range between 10 and 50 ppb, sulfur dioxide between 100 and 300, and chlorine between 2 and 10 ppb. 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
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PURAFIL CCC # P67949 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	489 Å	1708 Å	3819 Å	
Cu ₂ O	268 Å	935 Å	2090 Å	
Unknowns	698 Å	2437 Å	5448 Å	
Totals	1455 Å	5080 Å	11357 Å	
Silver Films				
AgCl	373 Å	4542 Å	22711 Å	
Ag ₂ S	2024 Å	24646 Å	123232 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	2397 Å	29188 Å	145943 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

