

PURAFIL ENVIRONMENTAL CORROSION REPORT

14-Jun-2010

Company: 111038

Sales Order #: C002687
CCC Panel #: P67632
Date In: 21-May-2010
Date Out: 03-Jun-2010
Days In Service: 13

Room Area ID:
Reference #:



CCC Panel # P67632

ISA Class G2
Moderate

Copper Corrosion
595 Å/30 Days

Silver Corrosion
2554 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67632

The electrolytic reduction analysis on Corrosion Classification Coupon #P67632 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 # P67632 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	416 Å	832 Å	1422 Å	
Cu ₂ O	179 Å	358 Å	612 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	595 Å	1190 Å	2034 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	2504 Å	30484 Å	152421 Å	
Unknowns	50 Å	603 Å	3016 Å	
Totals	2554 Å	31087 Å	155437 Å	

Gold Pore Corrosion:
 Note: 1000 Å = 0.1 micron

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

