

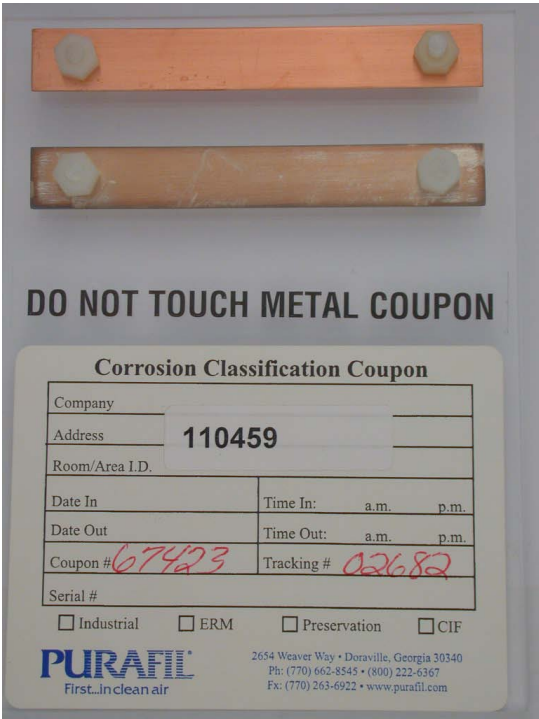
PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

28-May-2010

Company: 110459

Room Area ID:
Reference #:

Sales Order #: C002682
CCC Panel #: P67423
Date In: 06-May-2010
Date Out: 20-May-2010
Days In Service: 14



CCC Panel # P67423
ISA Class G1 Mild
Copper Corrosion 288 Å/30 Days
Silver Corrosion 566 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67423

The electrolytic reduction analysis on Corrosion Classification Coupon #P67423 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

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 # P67423 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	288 Å	385 Å	503 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	288 Å	385 Å	503 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	531 Å	6467 Å	32333 Å	
Unknowns	35 Å	420 Å	2101 Å	
Totals	566 Å	6887 Å	34434 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

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

