

PURAFIL ENVIRONMENTAL CORROSION REPORT

07-Jan-2011

Company: 120273

Sales Order #: C002726
CCC Panel #: P68752
Date In: 29-Nov-2010
Date Out: 13-Dec-2010
Days In Service: 14

Room/Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company 120273	
Address	
Room/Area I.D.	
Date In 11/29/10	Time In: a.m. 17⁰⁰ p.m.
Date Out 12/13/10	Time Out: a.m. 15³⁰ p.m.
Coupon # 68752	Tracking # 02726
Serial #	

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PURAFIL
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CCC Panel # P68752

ISA Class G1
Mild

Copper Corrosion
271 Å/30 Days

Silver Corrosion
601 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68752

The electrolytic reduction analysis on Corrosion Classification Coupon #P68752 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 # P68752 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	191 Å	256 Å	334 Å	
Unknowns	80 Å	107 Å	140 Å	
Totals	271 Å	363 Å	474 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	601 Å	7321 Å	36604 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	601 Å	7321 Å	36604 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

