

PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

19-Jan-2011

Company: 120292

Room/Area ID:
Reference #:

Sales Order #: C002726
 CCC Panel #: P68726
 Date In: 29-Nov-2010
 Date Out: 13-Dec-2010
 Days In Service: 14

DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company 120292	
Address	
Room/Area I.D.	
Date In 11/27/10	Time In: a.m. 18⁰⁰ p.m.
Date Out 12/13/10	Time Out: a.m. 17³⁰ p.m.
Coupon # P68726	Tracking # 02726
Serial #	
☐ Industrial ☐ ERM ☐ Preservation ☐ CIF	

PURAFIL
First...in clean air

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CCC Panel # P68726

ISA Class G2
 Moderate

Copper Corrosion
 300 Å/30 Days

Silver Corrosion
 962 Å/30 Days

(see next page for complete
 analysis)

Summary for PURAFIL CCC # P68726

The electrolytic reduction analysis on Corrosion Classification Coupon #P68726 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
 tminegishi@eheinc.com

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PURAfil CCC # P68726 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	176 Å	236 Å	308 Å	
Cu ₂ O	51 Å	68 Å	88 Å	
Unknowns	73 Å	98 Å	128 Å	
Totals	300 Å	402 Å	524 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	962 Å	11713 Å	58566 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	962 Å	11713 Å	58566 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)

