2/3/2011 CCC - P68726

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

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

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

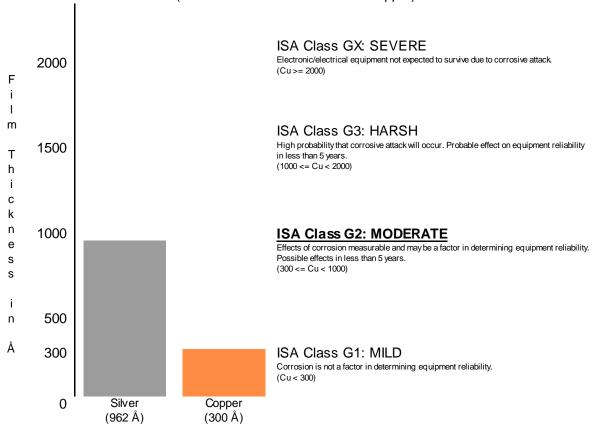
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PURAFIL CCC # P68726 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	30 Days	1 Year	<u>5 Year</u>	magimiou zox
Copper Films Cu ₂ S	176 Å	236 Å	308 Å	
Cu ₂ O	51 Å	68 Å	88 Å	
Unknow ns	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	
Unknow ns	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)



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