PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

02-Jun-2010

Company: 110331

Room Area ID: Reference #:



 Sales Order #:
 C002682

 CCC Panel #:
 P67435

 Date In:
 06-May-2010

 Date Out:
 21-May-2010

Days In Service: 15

CCC Panel # P67435

ISA Class G2 Moderate

Copper Corrosion 302 Å/30 Days

Silver Corrosion 842 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67435

The electrolytic reduction analysis on Corrosion Classification Coupon #P67435 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

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

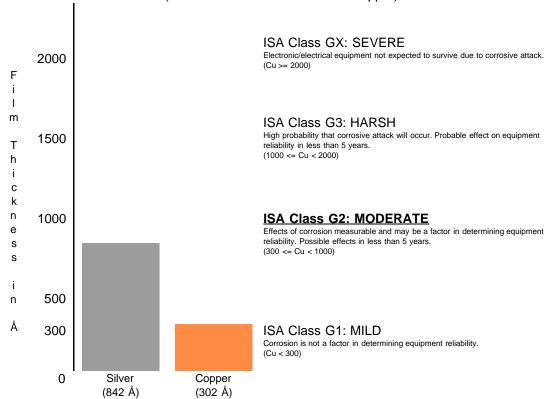
Displaying Page 1 <u>Display Page 2</u>

PURAFIL CCC # P67435 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	1 Year	<u>5 Year</u>	201
Copper Films Cu ₂ S	239 Å	323 Å	423 Å	
Cu ₂ O	63 Å	85 Å	111 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	302 Å	408 Å	534 Å	
Silver Films AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	748 Å	9110 Å	45551 Å	
Unknowns	94 Å	1150 Å	5751 Å	
Totals	842 Å	10260 Å	51302 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



Displaying Page 2 <u>Display Page 1</u>