PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

26-Oct-2010

Company: 116149

Room Area ID: Reference #:



 Sales Order #:
 C002697

 CCC Panel #:
 P68017

 Date In:
 22-Sep-2010

 Date Out:
 06-Oct-2010

Days In Service: 14

CCC Panel # P68017

ISA Class G2 Moderate

Copper Corrosion 884 Å/30 Days

Silver Corrosion 334 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68017

The electrolytic reduction analysis on Corrosion Classification Coupon #P68017 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. 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

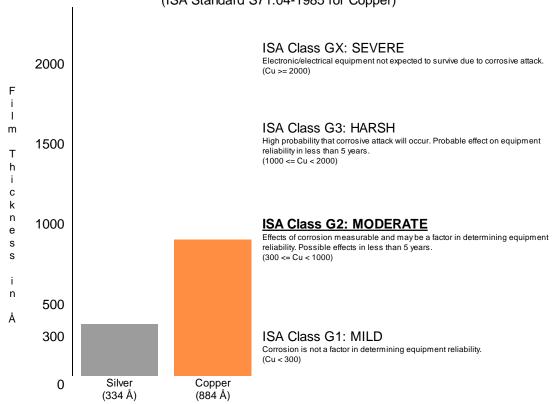
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PURAFIL CCC # P68017 Analysis Results

Corrosion Film Composition				Gold Coupon -
	30 Days	rojections <u>1 Year</u>	5 Year	Magnified 20x
Copper Films Cu ₂ S	712 Å	2484 Å	5555 Å	
Cu ₂ O	172 Å	601 Å	1344 Å	
Unknowns	o Å	o Å	0 Å	
Totals	884 Å	3085 Å	6899 Å	
Silver Films				
AgCI	93 Å	1136 Å	5678 Å	
Ag ₂ S	241 Å	2928 Å	14641 Å	
Unknowns	0 Å	o Å	0 Å	
Totals	334 Å	4064 Å	20319 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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