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PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

02-Dec-2010

Company: 118675

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68734

 Date In:
 01-Nov-2010

 Date Out:
 15-Nov-2010

Days In Service: 14

CCC Panel # P68734

ISA Class G2 Moderate

Copper Corrosion 446 Å/30 Days

Silver Corrosion 312 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68734

The electrolytic reduction analysis on Corrosion Classification Coupon #P68734 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.

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

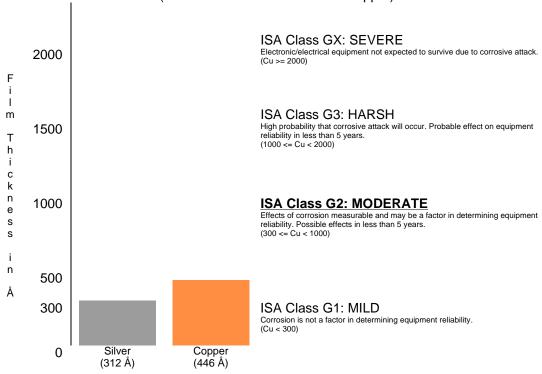
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PURAFIL CCC # P68734 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	1 Year	<u>5 Year</u>	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	287 Å	582 Å	995 Å	
Unknowns	159 Å	322 Å	550 Å	
Totals	446 Å	904 Å	1545 Å	
Silver Films				
AgCl	31 Å	379 Å	1893 Å	
Ag ₂ S	281 Å	3416 Å	17082 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	312 Å	3795 Å	18975 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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