PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

20-Dec-2010

Company: 116800

Sales Order #: C002726
CCC Panel #: P68757
Date In: 16-Nov-2010
Date Out: 30-Nov-2010
Days In Service: 14

Room/Area ID:
Reference #:

CCC Panel # P68757

ISA Class G1
Mild

Copper Corrosion
196 Å/30 Days

Silver Corrosion
311 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68757

The electrolytic reduction analysis on Corrosion Classification Coupon #P68757 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.

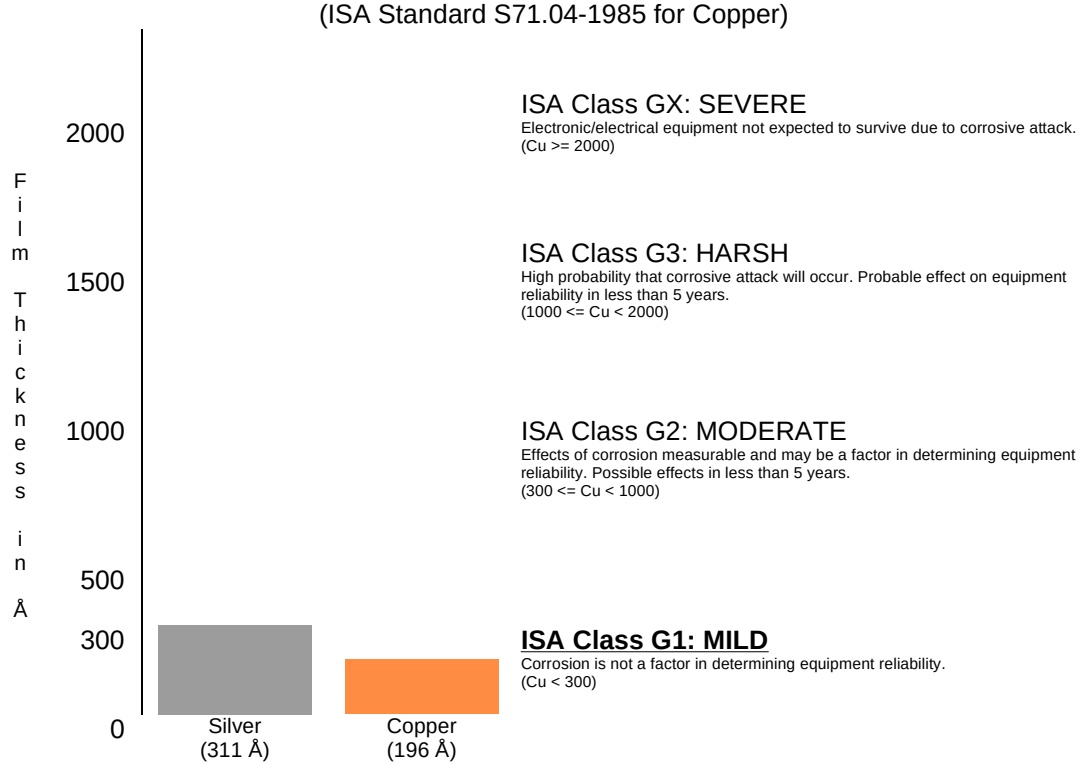
Your local representative for additional information and assistance is:
Environmental Health and Eng
117 Fourth Avenue, Needham MA 02494, USA
tminegishi@eheinc.com

PURAFIL CCC # P68757 Analysis Results

Corrosion Film Composition	Projections 30 Days	1 Year	5 Year
Copper Films			
Cu_2S	0 Å	0 Å	0 Å
Cu_2O	137 Å	183 Å	240 Å
Unknowns	59 Å	78 Å	103 Å
Totals	196 Å	261 Å	343 Å
Silver Films			
AgCl	0 Å	0 Å	0 Å
Ag_2S	311 Å	3782 Å	18912 Å
Unknowns	0 Å	0 Å	0 Å
Totals	311 Å	3782 Å	18912 Å
Gold Pore Corrosion:			
Note: 1000 Å = 0.1 micron			

Gold Coupon - Magnified 20x

Equipment Reliability Correlation
(ISA Standard S71.04-1985 for Copper)



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