

PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

02-Jun-2010

Company: 110387

Room Area ID:  
Reference #:

Sales Order #: C002682

CCC Panel #: P67446

Date In: 08-May-2010

Date Out: 21-May-2010

Days In Service: 13

CCC Panel # P67446

ISA Class G2  
Moderate

Copper Corrosion  
478 Å/30 Days

Silver Corrosion  
1638 Å/30 Days

(see next page for complete analysis)



Summary for PURAFIL CCC # P67446

The electrolytic reduction analysis on Corrosion Classification Coupon #P67446 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

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Email: purafil@purafil.com / Internet: http://www.purafil.com

PURAFIL CCC # P67446 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
Projections				
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	313 Å	626 Å	1070 Å	
Unknowns	165 Å	330 Å	564 Å	
Totals	478 Å	956 Å	1634 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	1554 Å	18921 Å	94606 Å	
Unknowns	84 Å	1025 Å	5127 Å	
Totals	1638 Å	19946 Å	99733 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

