

PURAFIL ENVIRONMENTAL CORROSION REPORT

29-Oct-2010

Company: 115393

Sales Order #: C002687

CCC Panel #: P67640

Date In: 20-Sep-2010

Date Out: 05-Oct-2010

Days In Service: 15

Room Area ID:

Reference #:

DO NOT REUSE COUPON

115393

Corrosion Classification Coupon

Company	
Address	
Room/Area ID	Outside
Date In	7/11/10
Time In	11:34 a.m. p.m.
Date Out	10/5/10
Time Out	12:00 p.m.
Coupon #	P67640
Tracking #	22887
Serial #	

Industrial ERM Preservation CIF

PURAFIL
First, Inc. Clean Air

2654 Weaver Way • Doraville, Georgia 30044
Ph: (770) 662-8545 • (770) 263-6922
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CCC Panel # P67640

ISA Class GX
Severe

Copper Corrosion
4893 Å/30 Days

Silver Corrosion
1004 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67640

The electrolytic reduction analysis on Corrosion Classification Coupon #P67640 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

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

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PURAFIL CCC # P67640 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	209 Å	879 Å	2569 Å	
Unknowns	4684 Å	19673 Å	57525 Å	
Totals	4893 Å	20552 Å	60094 Å	
Silver Films				
AgCl	116 Å	1413 Å	7066 Å	
Ag ₂ S	673 Å	8199 Å	40996 Å	
Unknowns	215 Å	2614 Å	13070 Å	
Totals	1004 Å	12226 Å	61132 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

