

PURAFIL ENVIRONMENTAL CORROSION REPORT

02-Dec-2010

Company: 118659

Sales Order #: C002726

CCC Panel #: P68754

Date In: 19-Oct-2010

Date Out: 16-Nov-2010

Days In Service: 28

Room/Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon	
Company	118659
Address	
Room/Area I.D.	
Date In	10/19/10
Time In:	a.m. 1:45 p.m.
Date Out	11/16/10
Time Out:	a.m. 12:00 p.m.
Coupon #	68754
Tracking #	02726
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	
	
2654 Weaver Way • Doraville, Georgia 30340 Ph: (770) 662-8545 • (800) 222-6367 Fx: (770) 263-6922 • www.purafil.com	

CCC Panel # P68754

ISA Class G2
Moderate

Copper Corrosion
921 Å/30 Days

Silver Corrosion
528 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68754

The electrolytic reduction analysis on Corrosion Classification Coupon #P68754 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
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Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P68754 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	135 Å	472 Å	1056 Å	
Unknowns	786 Å	2741 Å	6129 Å	
Totals	921 Å	3213 Å	7185 Å	
Silver Films				
AgCl	93 Å	1136 Å	5678 Å	
Ag ₂ S	331 Å	4026 Å	20132 Å	
Unknowns	104 Å	1260 Å	6302 Å	
Totals	528 Å	6422 Å	32112 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

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

