

Columbus Industries Laboratory Test Report

Paint Collector Arrestance

CI Customer:

Company Name: CI
Contact Person: Mike Haufe

End User: CI
CI Representative: Mike Haufe

Date Tested: 12-Jan-08 **Laboratory Report #** T011208Asan

Paint Description:

Manufacturer / Product # Sherwin Williams / H67 WC 55
 Color / Type White Permaclad H.S. Baking Enamel
 Viscosity as Received 20.81 sec. #4 zahn
 (~~Default~~) (~~Other~~)
 Thinning Required? NONE Yes
 Viscosity as Sprayed: AS REC'D 14.13 sec.
 Thinner Mn'fr./ Type: NONE Porter Xylene 5133
 Paint Temperature (°F): 75
 Room Temperature (°F): 75
 Mixing Instructions: NONE
 Other 900 ml. Paint / 50ml Xylene

Filters Tested:

PRIMARY (front):
92020BC

SECONDARY (middle or back):

TERTIARY (back):

Requested Test Parameters:

	(Default)		(Other)
Initial Velocity	150	ft/min	<u>Constant</u>
Air Pressure	50	psi	<u>40</u>
Fluid Pressure	<u>N/A</u>	psi	
Spray rate:	1	quart(s) /	
	20	min.	<u>11</u>
Spray Gun Type	<u>Conventional</u>		
Distance-Gun to test filter	<u>5</u>	ft	
Test Tunnel Size	<u>20" x 20"</u>		
End-of-Test Resistance (" H ₂ O gage)	<u>0.5</u>		

Comments: _____

Misc. Information:

What service life is expected (time) ? _____
 What arrestance efficiency is needed ? _____
 What overspray collector(s) are being used presently? _____
 What is the weight of the coatings per gallon ? _____
 What is the percentage of solids (weight basis) ? _____
 How many square feet of exhaust filter bank (total)? _____
 What is the transfer efficiency of your system ? _____
 How many gallons are being sprayed per shift ? _____
 How often are the filters changed (dry filters) ? _____
 Is the overspray **dusty, dry, tacky** or **wet** _____
 when it reaches the filter? _____
 Other comments: _____

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Test Filter Weights: Primary Secondary Tertiary
Filter abbreviation: 92020BC
 Before(g) 67.91
 After (g) 3276.84
 Weight gain (paint) (g) **3208.93** **0.00** **0.00**

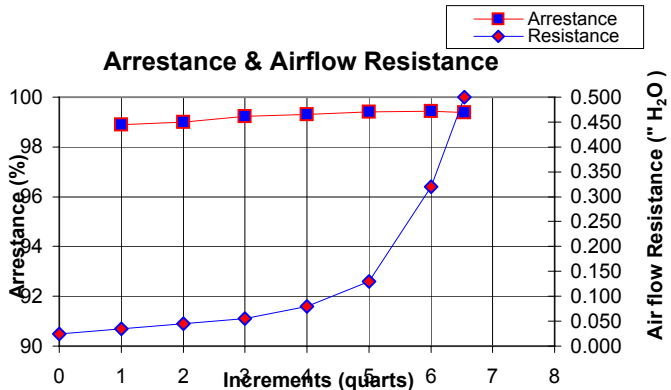
Total Holding Capacity 3208.93 g
 7.07 lb.
2.55 lbs/ft²

Increment #	Filter Resistance (in.H ₂ O)	Absolute Filter		Arrestance per Increment
		Before (g)	After (g)	
0	0.025			
1	0.035	27.85	38.19	98.90 %
2	0.045	27.92	37.34	99.00 %
3	0.055	27.48	34.75	99.22 %
4	0.080	27.69	34.23	99.30 %
5	0.130	27.83	33.33	99.41 %
6	0.320	27.39	32.70	99.43 %
6.54	0.500	27.30	30.40	99.39 %

Test Filter Weight Gain 3208.93 g
 Total Absolute Weight Gain 47.48 g
 Run Off Paint 2876.29 g
 Total Paint Filtered 6132.70 g

Test Results:

Initial System Arrestance 98.90 %
Average System Arrestance **99.23 %**
 Final System Arrestance 99.39 %
 Average Primary Arrestance 99.23 %
 Initial System Resistance 0.025 in. H₂O
 Final System Resistance 0.500 in. H₂O



This filter meets GACT for Area Sources under 40 CFR PART 63 SUBPART HHHHHH.
 (>98% EFFICIENT when tested by ASHRAE Method 52.1 in accordance with the NESHAP
 Paint Stripping and Miscellaneous Surface Coating at Area Sources)

Special Notes:

Tested By: Jamie Large

Date: 1/12/2008

These test results are furnished by Columbus Industries in order to provide an *ESTIMATE* of filter system performance. Due to the differences between lab and field conditions, actual results in the field may vary. Columbus Industries makes no warranty with regards to the filter system field performance, particulate emission levels, or to the performance of/effect on any downstream air handling or processing equipment.