LMS TECHNOLOGIES, INC.

6423 Cecilia Circle
Bloomington, MN 55439
(952) 918-9060, Fax: (952) 918-9061

Test Report-ASHRAE Test Standard 52.2M

Report #: **837**
Test Date: **12/06/04**

Test Requested By:	
Manufacturer:	
Product Name:	**8 oz Spun Bond Polyester Filter**
Model Number:	
Dimensions:	**13x27 Cylindrical**
Number of Pleats:	**Minipleat**
Filter Description:	**White synthetic minipleat cylindrical filter**
How Filter Obtained:	**Provided by manufacturer**

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	**500cfm**
Initial Resistance (in. WG)	**0.386**
Final Resistance (in. WG)	**4.0**
Minimum Efficiency Rating Value **(MERV)**	**MERV 10 @ 500cfm**
Minimum Average Efficiency 0.3 to 1.0 Microns **(E1)**	**26.8**
Minimum Average Efficiency 1.0 to 3.0 Microns **(E2)**	**62.0**
Minimum Average Efficiency 3.0 to 10 Microns **(E3)**	**93.4**
Dust Fed to Final Resistance(grams)	**7160.0 grams**
Resistance after loading and vacumning (in. WG)	**0.578**

Test Description

Temp & Humidity:	**70 @ 35%**
Particle Analysis:	**Hiac/Royco FE-80**
Test Dust:	**Dry Paint Powder VT-1329 Back 50**
Test Aerosol:	**KCL Neutralized**

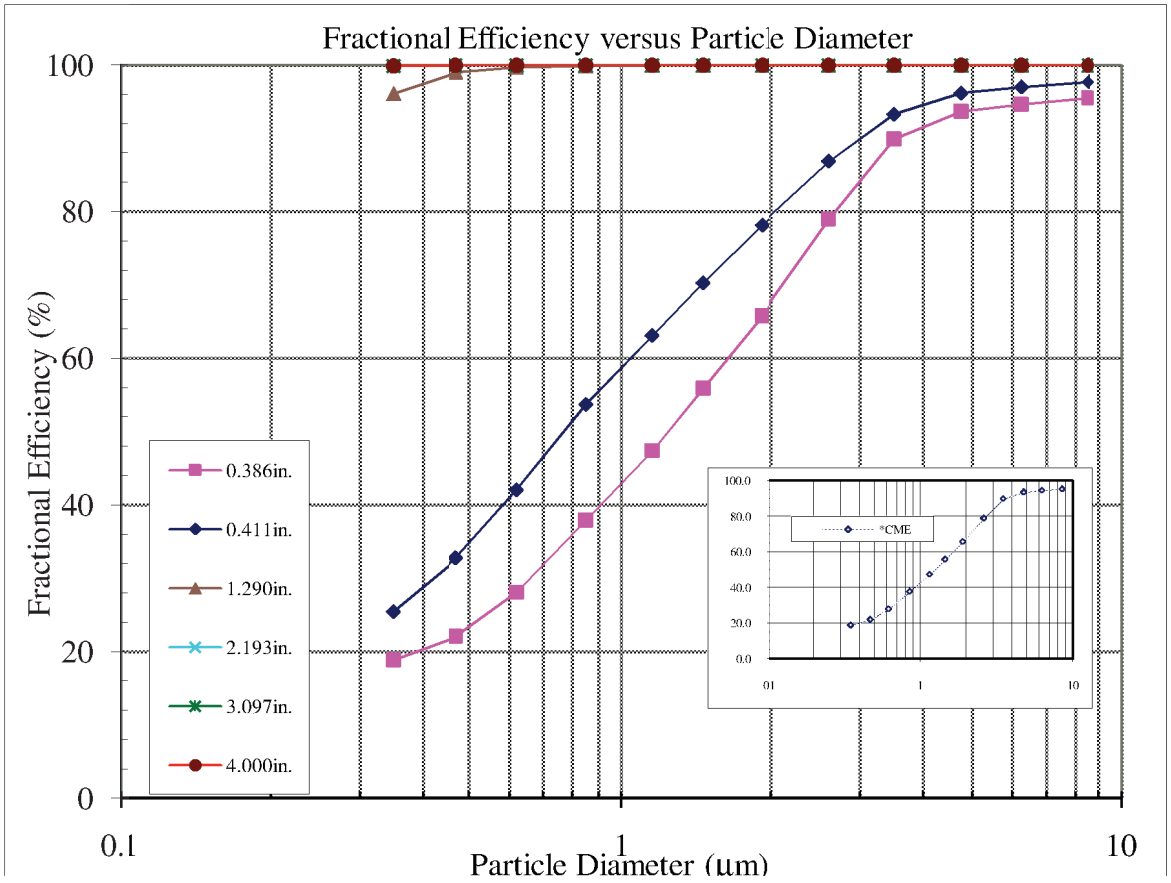
Test Engineer :	**Mick Flom/Tom Atef/Kian Imani/Emile Tadros**
Approved By:	**K. C. Kwok, Ph.D.**

LMS Technologies, Inc.
P.O. Box 24185, Edina, MN 55424
(612) 918-9060, Fax: (612) 918-9061

Date :	December 6, 2004		Requested by :
Filter ID :			
Test Type :	52.2m	**REP#: 837**	Manufacturer :
Test Aerosol :	KCl, Neutralized		Flow Rate: 500cfm

ΔP (" H_2O)	0.386in.	0.411in.	1.290in.	2.193in.	3.097in.	4.000in.	***CME**
Size Range (µm)	Fractional Efficiency (%)						
0.3-0.4	18.9	25.5	96.1	99.9	99.9	99.9	18.9
0.4-0.55	22.1	32.8	99.0	100.0	100.0	100.0	22.1
0.55-0.7	28.1	42.1	99.7	100.0	100.0	100.0	28.1
0.7-1.0	37.9	53.7	99.9	100.0	100.0	100.0	37.9
1.0-1.3	47.4	63.1	100.0	100.0	100.0	100.0	47.4
1.3-1.6	55.9	70.3	100.0	100.0	100.0	100.0	55.9
1.6-2.2	65.8	78.2	100.0	100.0	100.0	100.0	65.8
2.2-3.0	79.0	86.9	100.0	100.0	100.0	100.0	79.0
3.0-4.0	89.9	93.3	100.0	100.0	100.0	100.0	89.9
4.0-5.5	93.7	96.2	100.0	100.0	100.0	100.0	93.7
5.5-7.0	94.6	97.0	100.0	100.0	100.0	100.0	94.6
7.0-10.0	95.5	97.7	100.0	100.0	100.0	100.0	95.5

***Composite Minimum Efficiency**



TEST SUPERVISOR
MICK FLOM_____

ENGINEERING APPROVAL
K.C. KWOK, PH.D._____

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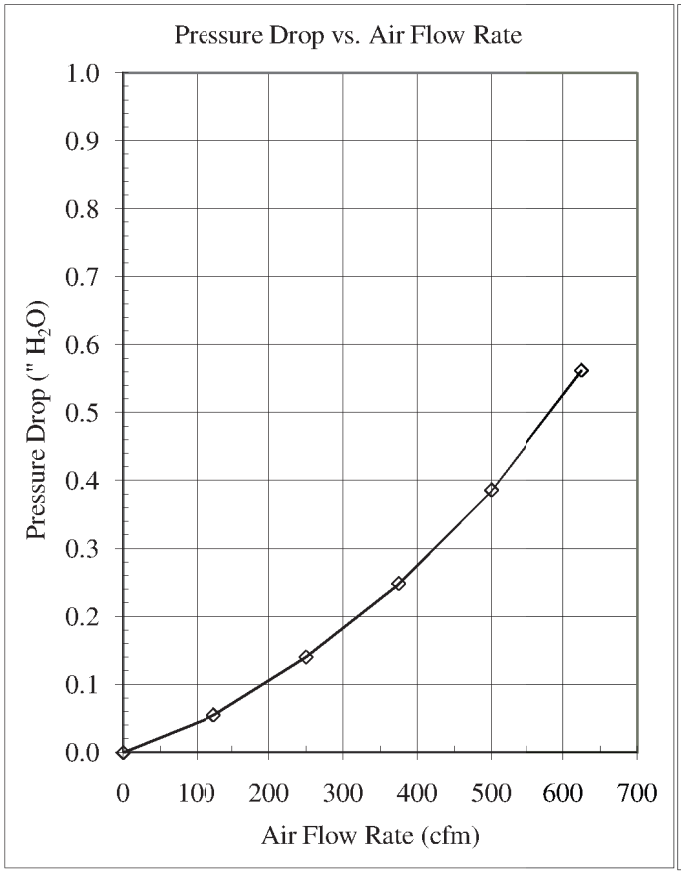
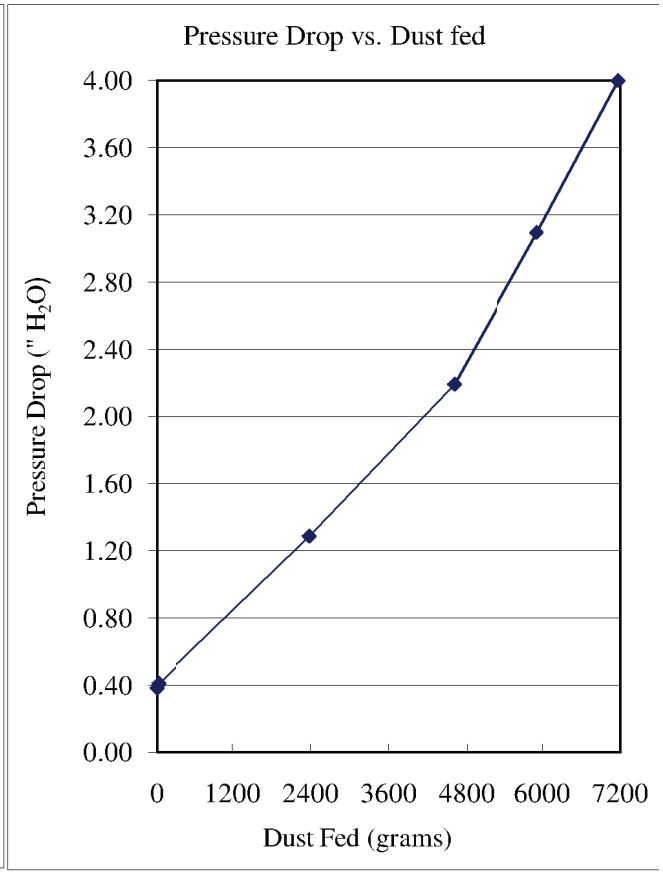
Date:	December 6, 2004	Test Requested by :	
Filter ID :			
Test Type :	Pressure Drop of Clean Filter for ASHRAE **52.2** **REP#: 837**	Filter Manufacturer :	

Flow Rate (CFM)	Velocity FPM	dP (mm H2O)	Pressure drop ("H2O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.386
125		1.40	0.055	25%	30.00	0.411
250		3.57	0.141	50%	2380.00	1.290
375		6.31	0.248	75%	4610.00	2.193
500		9.81	0.386	100%	5910.00	3.097
625		14.29	0.563	125%	7160.00	4.000

52.2P (sec.9.4)





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ENGINEERING APPROVAL
*K.C.KWOK PH.D.*_____