HEPA-XFP™

HEPA LEVEL OVERSPRAY FILTRATION SYSTEM FOR AEROSPACE APPLICATIONS

The HEPA-XFP™ is the most advanced aerospace system available for chromated paint.

The HEPA-XFP™ is the only filtration system giving aerospace paint booths HEPA level filtration without high-cost HEPA system booth construction and upgrades. Already used in some of the most sensitive U.S. military and commercial aerospace applications, the HEPA-XFP™ protects equipment, employees, and the environment. The HEPA-XFP™ is designed to eliminate nearly 100% of chromate particles.

FIRST STAGE

The CPA pre-filter is a multi-layered polyester media constructed of lofted denier and heavier densified fiber. The air leaving side is inkjet printed for identification and proper installation.

SECOND STAGE

The ME/PT pre-filter is constructed of two different layers of tackified polyester media, RF heat-sealed together. Additional face sealing secures the two layers. Each layer is constructed of a multi-layered, multi-density polyester with heavy, non-migrating tackifier on the air-leaving side.

THIRD STAGE

The first patented HEPA level achieving filtration system designed for aerospace applications. The HEPA-XFP™ 6 Pocket Bag Filter is constructed using 2 plies of electrostatic medias.

The first and second plies are a composite of melt blown and spun bound polyester fibers. The third, air leaving ply, is constructed of polypropylene and acrylic media.

Using 3 layers of electrostatic media, the HEPA-XFP™ achieves 99.97% efficiency on 0.3 µm size particles of low viscosity and high viscosity paints, as well as Method 319 test agents, KCL and Oleic Acid. High paint holding capacity and low initial pressure drop ensure a cost-effective solution to achieving the highest efficiency standards available.

SECURELY SEALED WITH NO PAINT BY-PASS

Each pocket is securely sealed with a galvanized metal gasket header. This eliminates any paint bypass through or around the bag filter.

A.J. DRALLE, INC.
1830 West Mound Road • Rockdale, Illinois 60436 • info@ajdralle.net
(800) 325-5339 • (815) 730-0505 • Fax (815) 730-0565

MADE IN THE USA

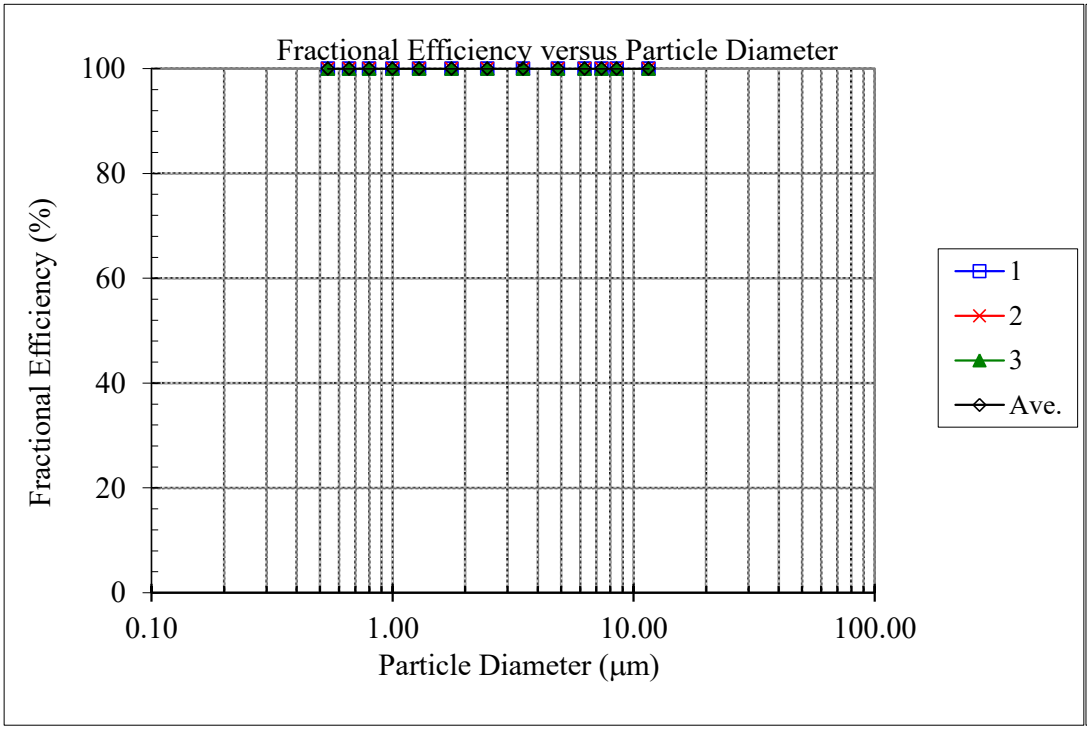
LMS TECHNOLOGIES, INC.

Date :	June 1, 2011	Flow Rate: 333 cfm
Filter ID :	HEPA-XFP 6 Pockets Bag Filter	
Descriptions:	3 STAGE SYSTEM	Requested by:
Test Type :	NESHAP Method 319 (3-Stage)	A.J.Dralle, Inc.
Test Aerosol :	KCl, neutralized	Mfr.:

Number	1	2	3	Ave.	
ΔP (" H_2O)	0.249	0.250	0.255	0.251	
Size Range (µm)	Fractional Efficiency (%)				
0.49-0.59	99.989	99.983	99.986	99.986	MINIMUM
0.59-0.73	99.993	99.990	99.992	99.992	***>75%***
0.73-0.87	100.000	99.991	100.000	99.997	
0.87-1.16	100.000	99.995	100.000	99.998	***>85%***
1.16-1.44	100.000	100.000	100.000	100.000	
1.44-2.14	100.000	100.000	100.000	100.000	
2.14-2.85	100.000	100.000	100.000	100.000	***>95%***
2.85-4.25	100.000	100.000	100.000	100.000	
4.25-5.55	100.000	100.000	100.000	100.000	
5.55-7.07	100.000	100.000	100.000	100.000	
7.07-7.66	100.000	100.000	100.000	100.000	
7.66-9.46	100.000	100.000	100.000	100.000	
9.46-14.1	100.000	100.000	100.000	100.000	

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} x100\%$$

F_{eff} = *Fractional Efficiency*
C_{un} = *Particle Concentration Upstream of Filter*
C_{down} =*Particle Concentration Downstream of Filter*



TEST SUERVISOR
EMILE TADROS

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

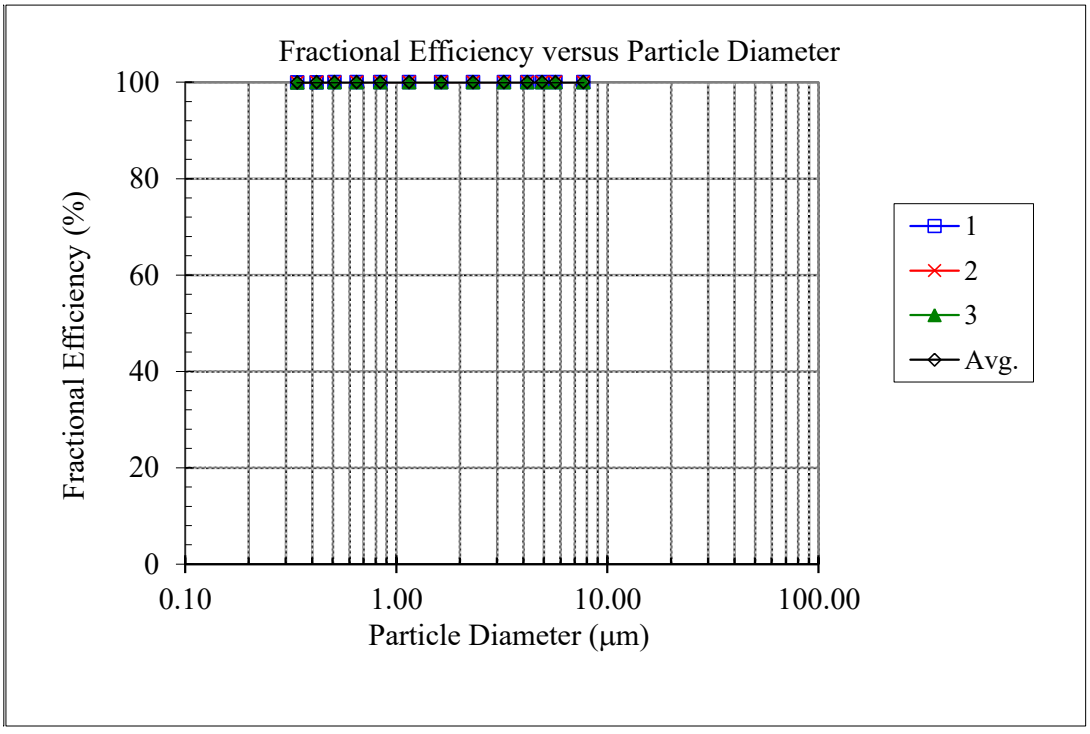
LMS TECHNOLOGIES, INC.

Date :	June 1, 2011	Flow Rate: 333 cfm
Filter ID :	HEPA-XFP 6 Pockets Bag Filter	
Descriptions:	3 STAGE SYSTEM	Requested by:
Test Type :	NESHAP Method 319 (3-Stage)	A.J.Dralle, Inc.
Test Aerosol :	Oleic Acid, neutralized	Mfr.:

Number	1	2	3	Avg.	
ΔP (" H_2O)	0.255	0.246	0.248	0.250	
Size Range (µm)	Fractional Efficiency (%)				
0.31-0.37	99.979	99.981	99.978	99.979	MINIMUM
0.37-0.47	99.980	99.996	99.999	99.992	***>65%***
0.47-0.56	100.000	100.000	100.000	100.000	
0.56-0.75	100.000	100.000	100.000	100.000	
0.75-0.94	100.000	100.000	100.000	100.000	
0.94-1.41	100.000	100.000	100.000	100.000	***>80%***
1.41-1.88	100.000	100.000	100.000	100.000	
1.88-2.83	100.000	100.000	100.000	100.000	***>95%***
2.83-3.69	100.000	100.000	100.000	100.000	
3.69-4.71	100.000	100.000	100.000	100.000	
4.71-5.11	100.000	100.000	100.000	100.000	
5.11-6.29	100.000	100.000	100.000	100.000	
6.29-9.43	100.000	100.000	100.000	100.000	

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} x100\%$$

F_{eff} = *Fractional Efficiency*
C_{up} = *Particle Concentration Upstream of Filter*
C_{down} = *Particle Concentration Downstream of Filter*



AJDRALLE Industry-of-the-Art Filtration

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