

LMS Technologies, Inc.
P.O. Box 24185, Edina, MN 55424 U.S.A.
 (952) 918-9060, Fax: (952) 918-9061

Date :	April 5, 2018	Wfrac. 276	Test Requested by : Airsan
Filter ID :	Metal Screen Media Coalescer		Angle: Vertical
Test Type :	Fractional Efficiency water	500 fpm	Filter Mfr. : Airsan
Aerosol:	Water Droplets		ΔP init.: 0.223in. 5.68 mm

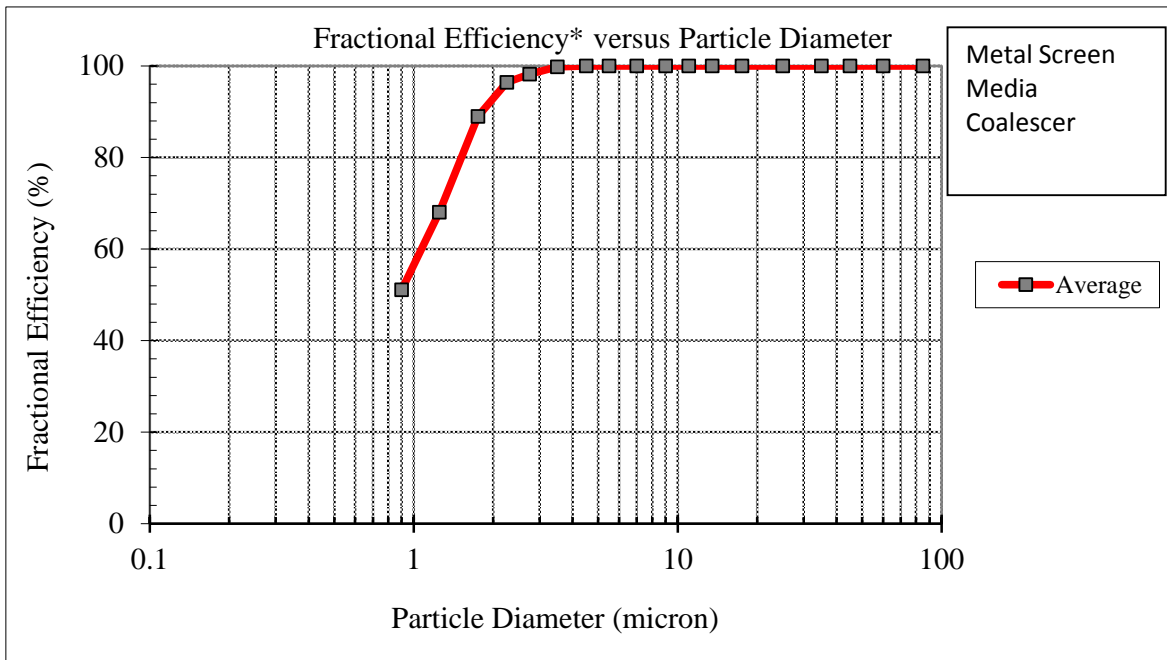
Time Elapsed, min.:	0.223in.		0.296in.			0.302in.					Average
	1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 min.			
Size Range (μm)	Initial Fractional Efficiency (%)										
0.2-0.3	No Particle Region										
0.3-0.4											
0.4-0.6											
0.6-0.8											
0.8-1.0	50.6	51.3	51.8	49.6	51.8	52.2	49.8	51.6			51.09
1.0-1.5	68.3	67.5	68.2	67.3	68.5	68.2	67.9	68.3			68.03
1.5-2.0	88.6	88.9	88.9	88.7	88.9	89.2	89.3	89.5			89.00
2.0-2.5	96.3	96.5	96.4	96.5	96.4	96.5	96.5	96.4			96.44
2.5-3.0	98.1	98.2	98.3	98.4	98.2	98.1	98.3	98.4			98.25
3-4	99.6	99.7	99.9	99.6	99.9	100.0	100.0	99.8			99.81
4-5	100% Filtration Region										
5-6											
6-8											
8-10											
10-12											
12-15											
15-20											
20-30											
30-40											
40-50											
50-70											100.00
70-100											100.00

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} \times 100\%$$

F_{eff} = Fractional Efficiency of Water Mist Collection

C_{up} = Water Particle Concentration Upstream of Filter

C_{down} = Water Particle Concentration Downstream of Filter



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Aerosol:	Water droplets		ΔP init.: 0.223in.	ΔP final: 0.302in.

