

Flexineb Aerosol Particle Size Distribution  
Sept 2011

Parameter	Flexineb™ (Figure 1)
VMD / MMD	4.11 µm
% < 5 µm	54%
% < 2 µm	38%



**Average Particle Size Distribution**

(average scatter, weighted)

Y144.smea\Exp 004 - 15 Mar 2010\Averages\TS029 1 2.psd

Sample : TS029

Start+1:05 (s) :: +1:46 (s) Phase::Stable

15 Mar 2010 - 14:36:22

**Standard Values:**

Trans = 92.0 (%)

Cv = 1.292 (PPM)

SSA = 4.822 (m<sup>2</sup>/cc)

Dv(10) = 0.4546 (µm)

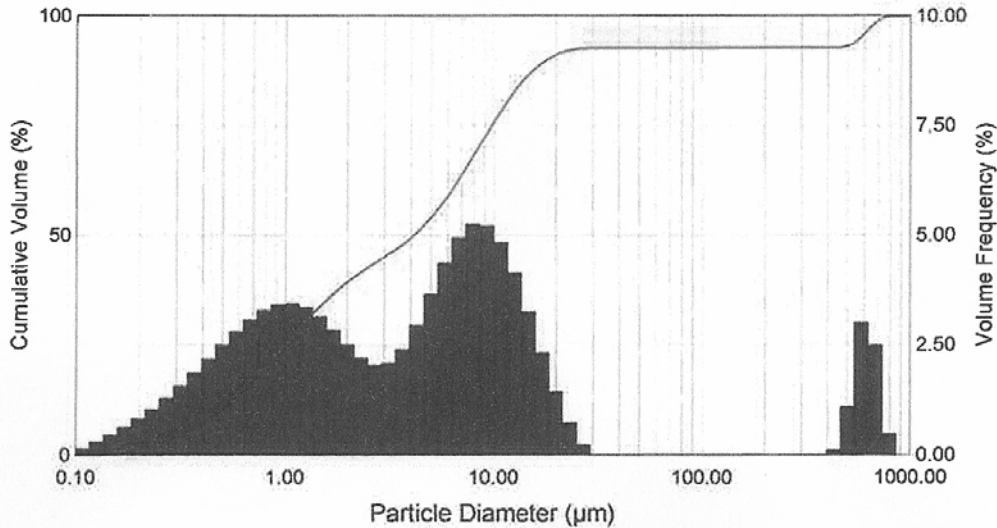
Dv(50) = 4.114 (µm)

Dv(90) = 17.95 (µm)

Span = 4.252

D[3][2] = 1.244 (µm)

D[4][3] = 49.41 (µm)



Size (µm)	% V <	% V	Size (µm)	% V <	% V	Size (µm)	% V <	% V
0.117	0.14	0.14	2.51	42.89	2.21	54.12	92.78	0.00
0.136	0.43	0.29	2.93	44.93	2.04	63.10	92.78	0.00
0.158	0.89	0.45	3.41	47.02	2.09	73.56	92.78	0.00
0.185	1.51	0.63	3.96	49.42	2.40	85.77	92.78	0.00
0.215	2.34	0.83	4.64	52.37	2.95	100.00	92.78	0.00
0.251	3.39	1.05	5.41	56.02	3.65	116.59	92.78	0.00
0.293	4.69	1.30	6.31	60.39	4.37	135.94	92.78	0.00
0.341	6.26	1.57	7.36	65.33	4.95	158.49	92.78	0.00
0.398	8.13	1.87	8.58	70.59	5.26	184.79	92.78	0.00
0.464	10.31	2.18	10.00	75.81	5.22	215.44	92.78	0.00
0.541	12.81	2.50	11.66	80.64	4.83	251.19	92.78	0.00
0.631	15.62	2.80	13.59	84.79	4.14	292.87	92.78	0.00
0.736	18.69	3.08	15.85	88.05	3.26	341.46	92.78	0.00
0.858	21.98	3.29	18.48	90.37	2.32	398.11	92.78	0.00
1.00	25.40	3.42	21.54	91.81	1.44	464.16	92.90	0.12
1.17	28.84	3.44	25.12	92.54	0.73	541.17	94.01	1.11
1.36	32.19	3.35	29.29	92.78	0.23	630.96	97.02	3.01
1.58	35.33	3.14	34.15	92.78	0.00	735.64	99.51	2.49
1.85	38.17	2.84	39.81	92.78	0.00	857.70	99.99	0.48
2.15	40.68	2.51	46.42	92.78	0.00	1000.00	100.00	0.01

Figure 1: Flexineb Particle Size Distribution

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Notes:

1. Flexineb data produced independently by Melbourn Scientific test laboratory [www.melbournscientific.com](http://www.melbournscientific.com) using Malvern Spraytech laser diffraction analysis
2. For liquid water droplets VMD = MMAD or MMD [http://www.malvern.com/LabEng/technology/laser\\_diffraction/aerodynamic\\_sizing.htm](http://www.malvern.com/LabEng/technology/laser_diffraction/aerodynamic_sizing.htm)
3. Test medium used for was 0.9% sodium chloride (NaCl)