

# VISISIZE ANALYSIS REPORT



09/08/2006 09:38:40

## timbob

VisiSize 3.001

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Test

Test Date

Experimenter

Details

## SAMPLE ANALYSIS SUMMARY (diameters in microns)

Averages:		Spread:		Volume percentiles:	
Arithmetic mean	81.4	Minimum diameter	19.8	10%	117.6
Surface mean	106.5	Maximum diameter	481.3	50%	316.0
Volume mean	136.7	Relative span	1.10	90%	466.4
Volume-weighted mean	292.4	Deviation	0.7	GSD	1.68
Sphericity	0.86				

## PERFORMANCE SUMMARY

In-focus count	546	Field of view (microns)	4536 x 4500	Focus reject %	12.2
Corrected count	566	Depth of focus (microns)	2230	Shape reject %	0.0
Video frames	51	Probe volume (cu mm)	45.5188	Border reject %	0.00
Empty frames	0	Particle volume (cu mm)	7.562E-01	Run time (sec)	6
Particles / frame	10.7	Volume density	3.258E-04	Sample size chk (%)	7.72
Background intensity	206	Surface area (sq mm)	20.171	Contrast	0.67
Micron/pixel ratio	4.500	Surface area / volume ratio	26.7	Particles/cu mm	0.24
Magnification	1.64				

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## SYSTEM SETTINGS

Focus rejection	ON	Border rejection	ON
DOF correction	OFF	Edge contact correction	ON
Shape rejection	OFF	Background intensity rejection	OFF
System details	VisiSizer	Micron/pixel ratio	4.500
Lens magnification setting	2	Minimum particle area	15
Data acquisition rate	30	Maximum particle area	16028
Horizontal indents	0, 0	Shape parameter	0.80
Vertical indents	0, 0	Focus length	2230
Threshold	Adaptive: 75	Background rejection limits	120, 250
Diameter smoothing	None		

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### DIAMETER DISTRIBUTION TABLE

DIAMETER (microns)	EC FACTOR	COUNT	% NUM	% AREA	% VOL	CUM % VOL
19.5 - 20.9	1.01	10	1.78	0.06	0.006	0.0058
20.9 - 22.4	1.01	11	1.96	0.08	0.008	0.0138
22.4 - 24.0	1.01	11	1.96	0.09	0.010	0.0234
24.0 - 25.7	1.01	11	1.97	0.10	0.011	0.0349
25.7 - 27.5	1.01	7	1.25	0.08	0.009	0.0444
27.5 - 29.5	1.01	15	2.68	0.20	0.025	0.0694
29.5 - 31.6	1.01	9	1.61	0.13	0.018	0.0873
31.6 - 33.9	1.01	10	1.79	0.17	0.025	0.1121
33.9 - 36.3	1.02	15	2.69	0.29	0.046	0.1577
36.3 - 38.9	1.02	14	2.52	0.32	0.054	0.2122
38.9 - 41.7	1.02	18	3.24	0.47	0.085	0.2977
41.7 - 44.7	1.02	23	4.14	0.68	0.130	0.4281
44.7 - 47.9	1.02	27	4.69	0.89	0.183	0.6112
47.9 - 51.3	1.02	43	7.59	1.64	0.361	0.9717
51.3 - 55.0	1.02	28	4.88	1.22	0.288	1.2600
55.0 - 58.9	1.03	30	5.26	1.50	0.378	1.6381
58.9 - 63.1	1.03	17	3.09	1.02	0.277	1.9150
63.1 - 67.6	1.03	29	5.09	1.92	0.560	2.4749
67.6 - 72.4	1.03	22	3.83	1.66	0.519	2.9942
72.4 - 77.6	1.03	24	4.20	2.10	0.703	3.6973
77.6 - 83.2	1.04	20	3.48	1.97	0.702	4.3991
83.2 - 89.1	1.04	15	2.57	1.70	0.655	5.0542
89.1 - 95.5	1.04	17	2.95	2.18	0.889	5.9432
95.5 - 102.3	1.04	26	4.62	3.93	1.718	7.6611
102.3 - 109.6	1.05	15	2.59	2.53	1.187	8.8484
109.6 - 117.5	1.05	12	2.04	2.28	1.141	9.9895
117.5 - 125.9	1.06	5	0.93	1.23	0.673	10.6629
125.9 - 134.9	1.06	13	2.25	3.38	1.964	12.6267
134.9 - 144.5	1.06	7	1.32	2.24	1.384	14.0111
144.5 - 154.9	1.07	6	1.13	2.25	1.502	15.5127
154.9 - 166.0	1.07	5	0.95	2.11	1.487	16.9996
166.0 - 177.8	1.08	8	1.34	3.42	2.594	19.5936
177.8 - 190.5	1.09	4	0.77	2.35	1.953	21.5467
190.5 - 204.2	1.09	2	0.39	1.37	1.218	22.7644
204.2 - 218.8	1.10	5	0.97	3.94	3.765	26.5292
218.8 - 234.4	1.11	4	0.78	3.68	3.779	30.3079
234.4 - 251.2	1.12	3	0.59	3.01	3.224	33.5317

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## DIAMETER DISTRIBUTION TABLE

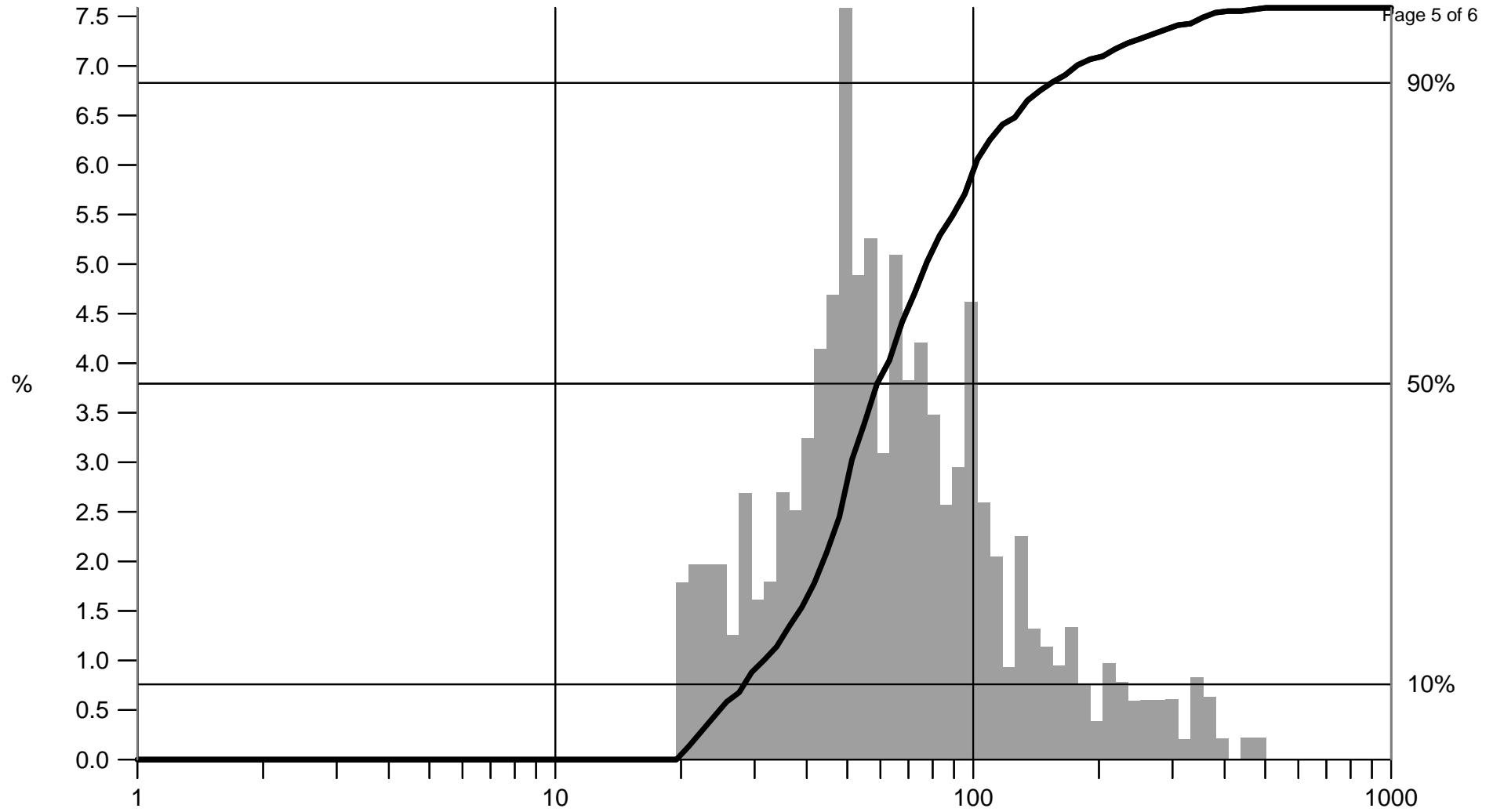
DIAMETER (microns)	EC FACTOR	COUNT	% NUM	% AREA	% VOL	CUM % VOL
251.2 - 269.2	1.12	3	0.60	3.57	4.141	37.6729
269.2 - 288.4	1.13	3	0.60	4.00	4.883	42.5563
288.4 - 309.0	1.14	3	0.61	4.94	6.674	49.2308
309.0 - 331.1	1.16	1	0.20	1.76	2.448	51.6783
331.1 - 354.8	1.17	5	0.83	8.51	12.954	64.6321
354.8 - 380.2	1.18	4	0.63	7.51	12.310	76.9416
380.2 - 407.4	1.20	1	0.21	3.07	5.540	82.4814
407.4 - 436.5	1.21	0	0.00	0.00	0.000	82.4814
436.5 - 467.7	1.23	1	0.22	3.91	7.863	90.3449
467.7 - 501.2	1.25	1	0.22	4.51	9.655	100.0000

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## Diameter number frequencies

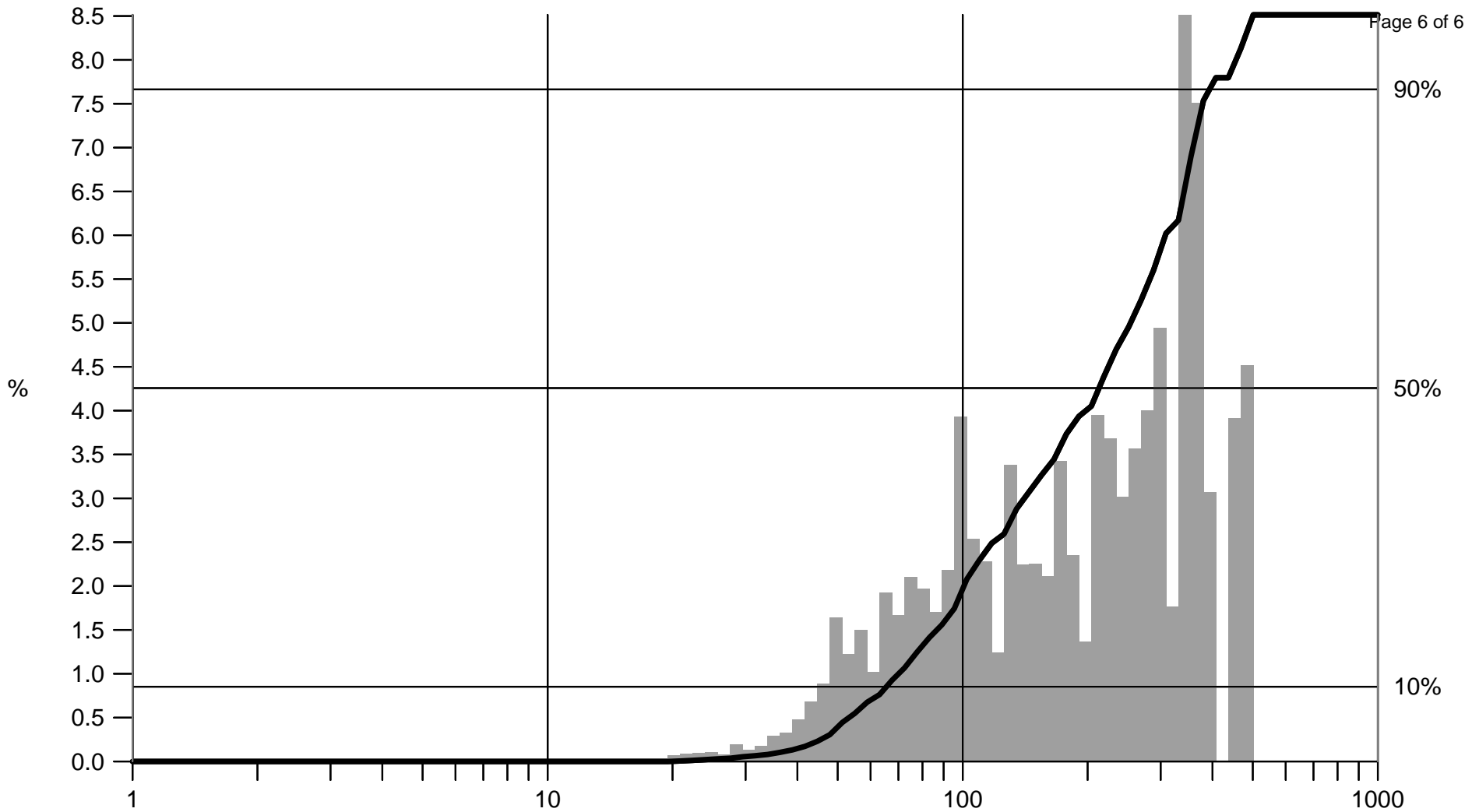


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## Diameter frequencies by surface area



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Diameter frequencies by volume

