

Sample: Tungsten Carbide
 Operator: AWT
 Submitter: Micromeritics
 File: C:\...\EXAMPLE\TUNGCARB.SMP
 Material/Liquid: Tungsten carbide / Water
 Measurement Principle: X-Ray monitored gravity sedimentation
 Calculation Method: Stokes sedimentation and Beer's law of extinction

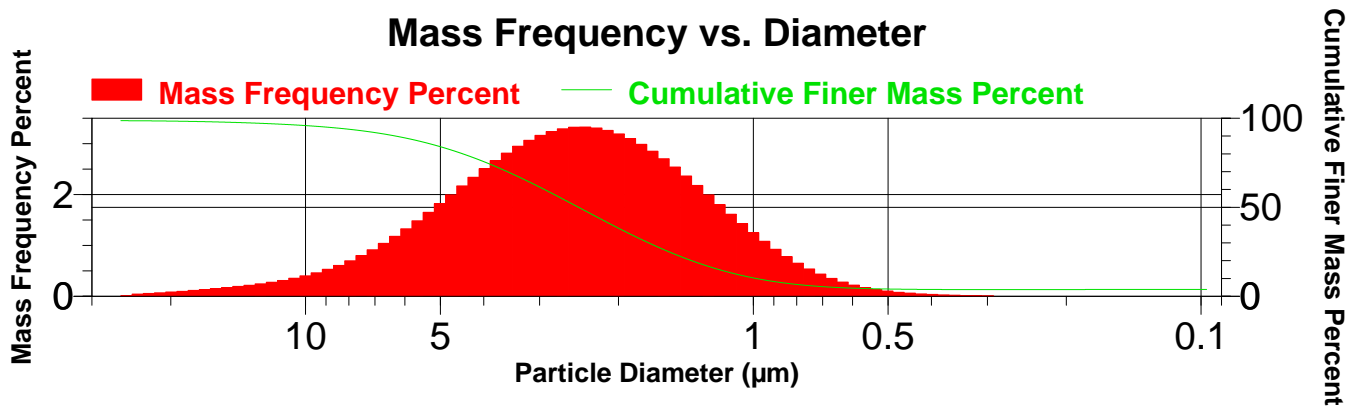
Test Number: 3	Analysis Type: High Speed
Analyzed: 7/18/2003 9:17:57AM	Run Time: 1007:44 hrs:min
Reported: 3/31/2006 10:06:21AM	Sample Density: 15.640 g/cm ³
Liquid Visc: 0.7230 mPa-s	Liquid Density: 0.9941 g/cm ³
Analysis Temp: 35.0 °C	Base/Full Scale: 136 / 66 kCnts/s
Full Scale Mass: 100.0 %	Reynolds Number: 0.24

Notes:

- o Analysis options changed after first analysis.

Combined Report

Mass Frequency vs. Diameter



Summary Report

Full scale pump speed: 4	Stir time: 30 s
Bubble detection: Coarse	Stir speed: Low
Starting Size: 25.00 µm	Probe time: 15 s
Ending Size: 0.18 µm	

Parameter 1 0.000 Parameter 2 0.000 Parameter 3 0.000

Mass Distribution Arithmetic Statistics

Mean	3.246	Std Dev of 3	0.063	Mode	2.371	Std Dev of 3	0.081
Median	2.456		0.029				

Peaks

Peak Number	Percent of Dist.*	Mean	Mean Std Dev of 3	Median	Standard Deviation	Skewness	Kurtosis
1	94.9	3.246	0.085	2.508	2.637	2.873	12.218

* Peaks must comprise at least 5.00 % of the distribution.

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Report by Size Class

High Diameter (µm)	Low Diameter (µm)	Average Diameter (µm)	Cumulative Mass Finer (Percent)	Mass Frequency (Percent)	Cum. Mass Standard Deviation (3 tests)
25.85	24.41	25.12	98.6	0.0	0.2
24.41	23.04	23.71	98.6	0.0	0.1
23.04	21.75	22.39	98.5	0.1	0.1
21.75	20.54	21.13	98.4	0.1	0.1
20.54	19.39	19.95	98.3	0.1	0.1
19.39	18.30	18.84	98.3	0.1	0.1
18.30	17.28	17.78	98.1	0.1	0.1
17.28	16.31	16.79	98.0	0.1	0.1
16.31	15.40	15.85	97.8	0.2	0.2
15.40	14.54	14.96	97.7	0.2	0.2
14.54	13.72	14.13	97.5	0.2	0.2
13.72	12.96	13.34	97.3	0.2	0.2
12.96	12.23	12.59	97.0	0.2	0.3
12.23	11.55	11.89	96.7	0.3	0.3
11.55	10.90	11.22	96.4	0.3	0.3
10.90	10.29	10.59	96.1	0.4	0.3
10.29	9.716	10.00	95.7	0.4	0.3
9.716	9.173	9.441	95.2	0.5	0.3
9.173	8.660	8.913	94.7	0.5	0.4
8.660	8.175	8.414	94.1	0.6	0.4
8.175	7.718	7.943	93.4	0.7	0.4
7.718	7.286	7.499	92.6	0.8	0.4
7.286	6.879	7.079	91.7	0.9	0.4
6.879	6.494	6.683	90.6	1.0	0.4
6.494	6.131	6.310	89.4	1.2	0.4
6.131	5.788	5.957	88.1	1.3	0.4
5.788	5.464	5.623	86.6	1.5	0.4
5.464	5.158	5.309	85.0	1.6	0.4
5.158	4.870	5.012	83.2	1.8	0.5
4.870	4.597	4.732	81.2	2.0	0.5
4.597	4.340	4.467	79.0	2.2	0.5
4.340	4.097	4.217	76.7	2.3	0.5
4.097	3.868	3.981	74.1	2.5	0.5
3.868	3.652	3.758	71.5	2.7	0.6
3.652	3.447	3.548	68.7	2.8	0.6
3.447	3.255	3.350	65.7	2.9	0.6
3.255	3.073	3.162	62.7	3.1	0.6
3.073	2.901	2.985	59.5	3.2	0.6
2.901	2.738	2.818	56.2	3.2	0.7

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2.738	2.585	2.661	53.0	3.3	0.7
2.585	2.441	2.512	49.6	3.3	0.7
2.441	2.304	2.371	46.3	3.3	0.7
2.304	2.175	2.239	43.0	3.3	0.7
2.175	2.054	2.113	39.7	3.3	0.7
2.054	1.939	1.995	36.5	3.2	0.7
1.939	1.830	1.884	33.4	3.1	0.6
1.830	1.728	1.778	30.5	3.0	0.6
1.728	1.631	1.679	27.6	2.9	0.6
1.631	1.540	1.585	24.9	2.7	0.5
1.540	1.454	1.496	22.4	2.5	0.5
1.454	1.372	1.413	20.0	2.4	0.5
1.372	1.296	1.334	17.8	2.2	0.4
1.296	1.223	1.259	15.8	2.0	0.4
1.223	1.155	1.189	14.0	1.8	0.3
1.155	1.090	1.122	12.4	1.6	0.3
1.090	1.029	1.059	11.0	1.4	0.2
1.029	0.972	1.000	9.7	1.3	0.2
0.972	0.917	0.944	8.6	1.1	0.1
0.917	0.866	0.891	7.7	0.9	0.1
0.866	0.818	0.841	6.9	0.8	0.1
0.818	0.772	0.794	6.3	0.7	0.1
0.772	0.729	0.750	5.8	0.5	0.1
0.729	0.688	0.708	5.3	0.4	0.0
0.688	0.649	0.668	5.0	0.4	0.0
0.649	0.613	0.631	4.7	0.3	0.0
0.613	0.579	0.596	4.5	0.2	0.0
0.579	0.546	0.562	4.3	0.2	0.0
0.546	0.516	0.531	4.2	0.1	0.0
0.516	0.487	0.501	4.1	0.1	0.0
0.487	0.460	0.473	4.0	0.1	0.0
0.460	0.434	0.447	3.9	0.1	0.0
0.434	0.410	0.422	3.9	0.0	0.0
0.410	0.387	0.398	3.8	0.0	0.0
0.387	0.365	0.376	3.8	0.0	0.1
0.365	0.345	0.355	3.8	0.0	0.1
0.345	0.325	0.335	3.8	0.0	0.1
0.325	0.307	0.316	3.8	0.0	0.1
0.307	0.290	0.299	3.7	0.0	0.1

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0.290	0.274	0.282	3.7	0.0	0.1
0.274	0.259	0.266	3.7	0.0	0.1
0.259	0.244	0.251	3.8	0.0	0.2
0.244	0.230	0.237	3.8	0.0	0.2
0.230	0.218	0.224	3.8	0.0	0.3
0.218	0.205	0.211	3.8	0.0	0.3
0.205	0.194	0.200	3.8	0.0	0.3
0.194	0.183	0.188	3.8	0.0	0.4
0.183	0.173	0.178	3.8	0.0	0.4
0.173	0.163	0.168	3.8	0.0	0.5
0.163	0.154	0.158	3.9	0.0	0.5
0.154	0.145	0.150	3.9	0.0	0.6
0.145	0.137	0.141	3.9	0.0	0.6
0.137	0.130	0.133	3.9	0.0	0.6
0.130	0.122	0.126	3.9	0.0	0.7
0.122	0.115	0.119	3.9	0.0	0.7
0.115	0.109	0.112	3.9	0.0	0.7
0.109	0.103	0.106	3.9	0.0	0.7
0.103	0.097	0.100	3.9	0.0	0.7

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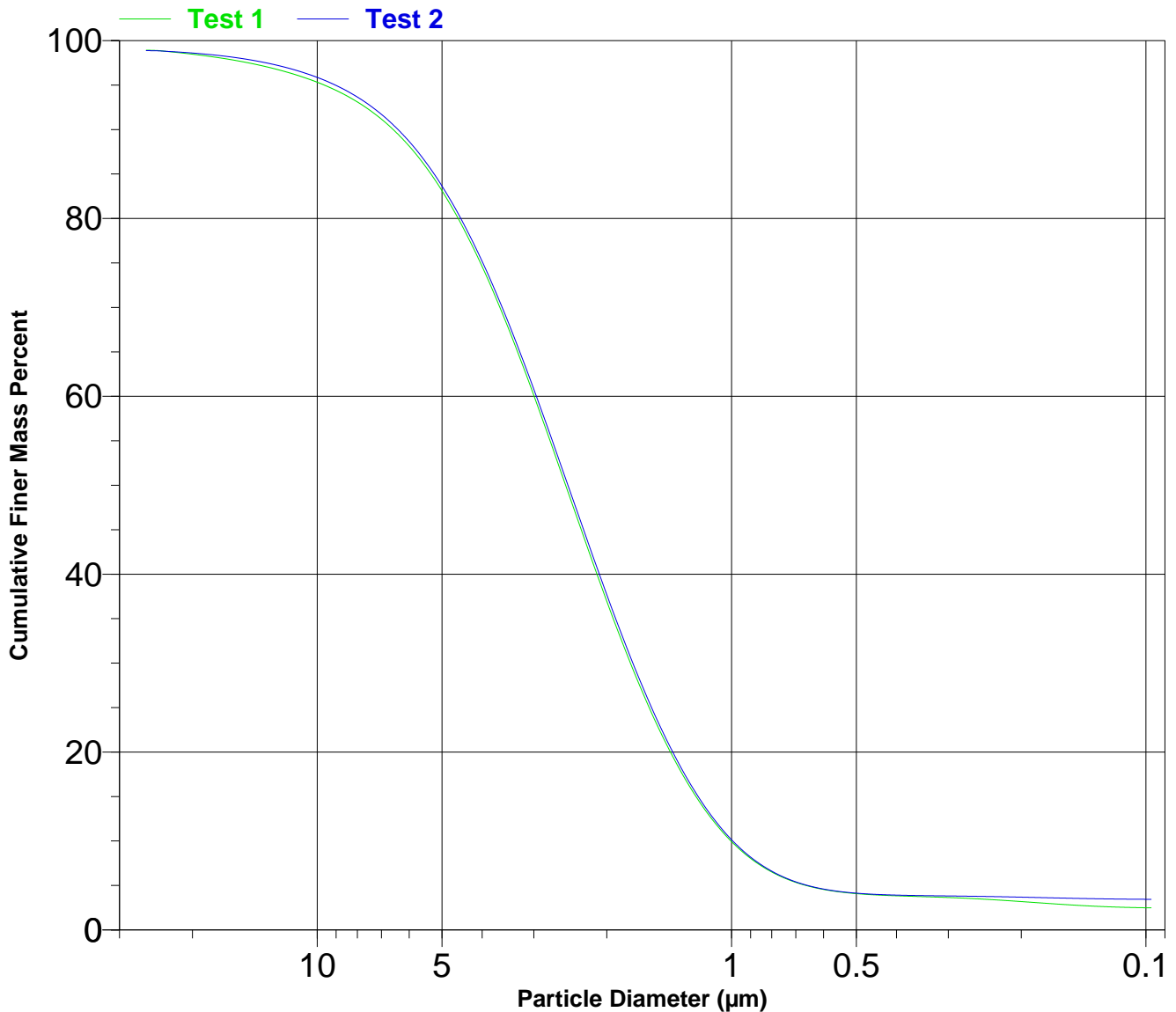
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Cumulative Finer Mass Percent vs. Diameter



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Mass Frequency vs. Diameter

