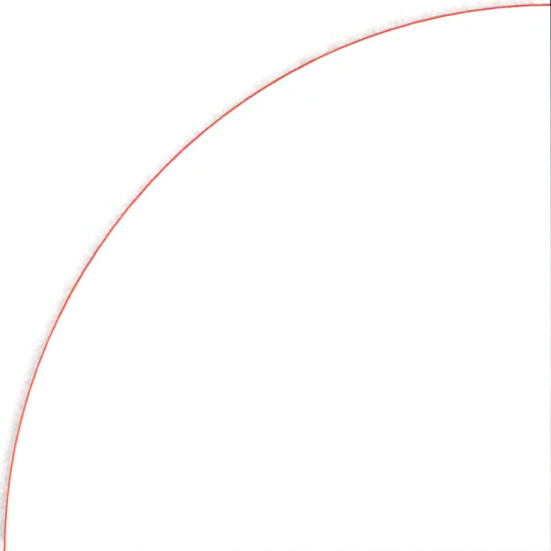


Appendix A





MASTERSIZER



Result Analysis Report

Sample Name:

Sample 1 - Average

SOP Name:

Measured by:

ABCD

Measured:

Friday, April 09, 2004 5:20:16 PM

Sample Source & type:

Factory = Chem Engg. Dept

Analysed:

Friday, April 09, 2004 5:20:17 PM

Sample bulk lot ref:

1

Result Source:

Averaged

Particle Name:

Placebo

Accessory Name:

Hydro 2000SM (A)

Analysis model:

General purpose

Sensitivity:

Normal

Particle RI:

1.500

Absorption:

0

Size range:

0.020 to 2000.000 um

Obscuration:

75.70 %

Dispersant Name:

Heptane

Dispersant RI:

1.390

Weighted Residual:

65.926 %

Result Emulation:

Off

Concentration:

0.0477 %Vol

Span :

1.038

Uniformity:

0.321

Result units:

Volume

Specific Surface Area:

1.87 m²/g

Surface Weighted Mean D[3,2]:

3.203 um

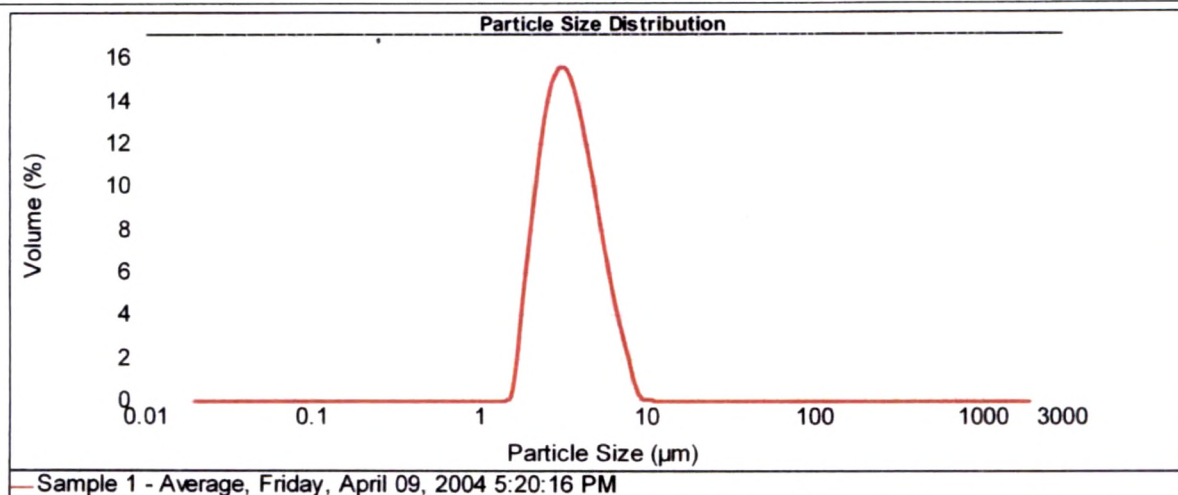
Vol. Weighted Mean D[4,3]:

3.642 um

d(0.1): 2.152 um

d(0.5): 3.330 um

d(0.9): 5.606 um



Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.095	0.00	11.482	0.00	120.226	0.00	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.00	13.183	0.00	138.038	0.00	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	0.11	15.136	0.00	158.489	0.00	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	0.11	17.378	0.00	181.970	0.00	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	3.55	19.953	0.00	208.930	0.00	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	7.44	22.909	0.00	239.883	0.00	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	10.98	26.303	0.00	275.423	0.00	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	13.30	30.200	0.00	316.228	0.00	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	14.07	34.674	0.00	363.078	0.00	3801.894	0.00
0.035	0.00	0.363	0.00	3.802	13.42	39.811	0.00	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.00	4.365	11.75	45.709	0.00	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.00	5.012	9.48	52.481	0.00	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.00	5.754	7.04	60.256	0.00	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.00	6.607	4.71	69.183	0.00	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.00	7.586	2.85	79.433	0.00	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.00	8.710	1.20	91.201	0.00	954.963	0.00	10000.000	0.00
0.091	0.00	0.955	0.00	10.000	0.10	104.713	0.00	1096.478	0.00		
0.105	0.00	1.096	0.00	11.482	0.00	120.226	0.00	1258.925	0.00		



MASTERSIZER



287b

Result Analysis Report

Sample Name:
LEM1 - Average

SOP Name:

Measured:
Friday, June 27, 2003 4:35:10 PM

Sample Source & type:
Initial = Beena

Measured by:
Administrator

Analysed:
Friday, June 27, 2003 4:35:12 PM

Sample bulk lot ref:
Base run

Result Source:
Averaged

Particle Name:
LEM1

Accessory Name:
Hydro 2000SM (A)

Analysis model:
General purpose

Sensitivity:
Normal

Particle RI:
1.500

Absorption:
0

Size range:
0.020 to 2000.000 μm

Obscuration:
63.19 %

Dispersant Name:
Heptane

Dispersant RI:
1.390

Weighted Residual:
30.624 %

Result Emulation:
Off

Concentration:
0.0411 %Vol

Span :
1.091

Uniformity:
0.336

Result units:
Volume

Specific Surface Area:
1.5 m^2/g

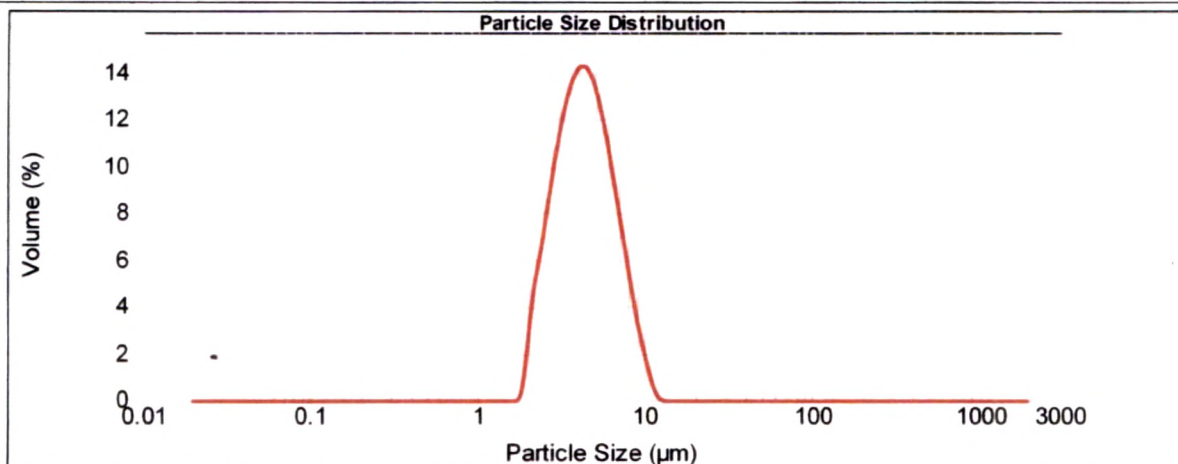
Surface Weighted Mean D[3,2]:
3.998 μm

Vol. Weighted Mean D[4,3]:
4.630 μm

d(0.1): 2.581 μm

d(0.5): 4.261 μm

d(0.9): 7.231 μm



— LEM1 - Average, Friday, June 27, 2003 4:35:10 PM

Size (μm)	Volume In %	Size (μm)	Volume In %	Size (μm)	Volume In %	Size (μm)	Volume In %	Size (μm)	Volume In %	Size (μm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.00	11.482	0.02	120.226	0.00	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.00	13.183	0.00	138.038	0.00	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	0.00	15.136	0.00	158.489	0.00	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	0.00	17.378	0.00	181.970	0.00	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	2.97	19.953	0.00	208.930	0.00	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	5.60	22.909	0.00	239.883	0.00	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	8.15	26.303	0.00	275.423	0.00	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	10.48	30.200	0.00	316.228	0.00	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	12.14	34.674	0.00	363.078	0.00	3801.894	0.00
0.035	0.00	0.363	0.00	3.802	12.88	39.811	0.00	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.00	4.365	12.55	45.709	0.00	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.00	5.012	11.24	52.481	0.00	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.00	5.754	9.19	60.256	0.00	630.957	0.00	6608.934	0.00
0.060	0.00	0.631	0.00	6.607	6.85	69.183	0.00	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.00	7.586	4.50	79.433	0.00	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.00	8.710	2.48	91.201	0.00	954.993	0.00	10000.000	0.00
0.091	0.00	0.965	0.00	10.000	0.89	104.713	0.00	1096.478	0.00		
0.105	0.00	1.096	0.00	11.482		120.226	0.00	1258.925	0.00		

Malvern Instruments Ltd
Malvern, UK

Tel: +44 (0) 1684-892456 Fax: +44 (0) 1684-892789

Mastersizer 2000 Ver 5.1
Serial Number MAL100206

File name: Chem Engg
Record Number: 16
17 Nov 2004 4:06:21 F

$$\phi = 0.45, C_{i0} = 0.3M$$



MASTERSIZER



287c

Result Analysis Report

Sample Name:

LEM2 - Average

SOP Name:**Measured:**

Friday, June 27, 2003 6:02:35 PM

Sample Source & type:

Initial = Beena

Measured by:

Administrator

Analysed:

Friday, June 27, 2003 6:02:36 PM

Sample bulk lot ref:

Base run

Result Source:

Averaged

Particle Name:

LEM1

Accessory Name:

Hydro 2000SM (A)

Analysis model:

General purpose

Sensitivity:

Normal

Particle RI:

1.500

Absorption:

0

Size range:

0.020 to 2000.000 um

Obscuration:

30.34 %

Dispersant Name:

Heptane

Dispersant RI:

1.390

Weighted Residual:

2.736 %

Result Emulation:

Off

Concentration:

0.0282 %Vol

Span :

5.135

Uniformity:

1.36

Result units:

Volume

Specific Surface Area:0.844 m²/g**Surface Weighted Mean D[3,2]:**

7.110 um

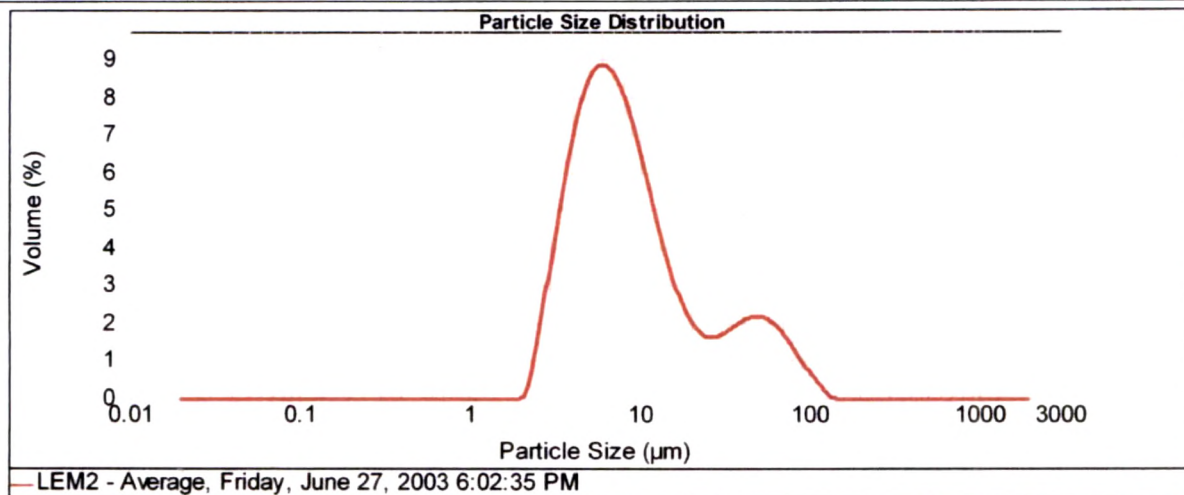
Vol. Weighted Mean D[4,3]:

15.633 um

d(0.1): 3.686 um

d(0.5): 7.783 um

d(0.9): 43.650 um



Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.00	11.482	4.53	120.226	0.09	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.00	13.183	3.56	138.038	0.00	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	0.00	15.136	2.73	158.489	0.00	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	0.00	17.378	2.09	181.970	0.00	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	0.00	19.953	1.67	208.930	0.00	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	0.00	22.909	1.48	239.883	0.00	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	0.61	26.303	1.47	275.423	0.00	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	2.02	30.200	1.59	316.228	0.00	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	3.56	34.674	1.76	363.078	0.00	3801.894	0.00
0.035	0.00	0.363	0.00	3.802	6.37	39.811	1.90	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.00	4.365	7.33	45.709	1.97	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.00	5.012	7.87	52.481	1.92	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.00	5.754	8.00	60.256	1.74	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.00	6.607	7.78	69.183	1.45	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.00	7.586	7.25	79.433	1.09	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.00	8.710	6.48	91.201	0.71	954.993	0.00	10000.000	0.00
0.091	0.00	0.955	0.00	10.000	5.53	104.713	0.39	1096.478	0.00		
0.105	0.00	1.096	0.00	11.482		120.226		1258.925	0.00		

$\phi = 0.45$, $c_{i0} = 0.3M$
After extraction.