

## Result Analysis Report

**Sample Name:**  
UNIMIN Lime (milled) no ultrasound

**SOP Name:**

**Measured:**  
Wednesday, 9 February 2011 11:56:32 AM

**Sample Source & type:**  
SiPowders

**Measured by:**  
Malvern

**Analysed:**  
Wednesday, 9 February 2011 11:56:33 AM

**Sample bulk lot ref:**

**Result Source:**  
Measurement

**Particle Name:**  
CaCO<sub>3</sub> (calcite)

**Accessory Name:**  
Hydro 2000MU (A)

**Analysis model:**  
General purpose

**Sensitivity:**  
Normal

**Particle RI:**  
1.572

**Absorption:**  
0.1

**Size range:**  
0.020 to 2000.000  $\mu\text{m}$

**Obscuration:**  
7.12 %

**Dispersant Name:**  
Water

**Dispersant RI:**  
1.330

**Weighted Residual:**  
1.768 %

**Result Emulation:**  
Off

**Concentration:**  
0.0031 %Vol

**Span :**  
2.231

**Uniformity:**  
0.689

**Result units:**  
Volume

**Specific Surface Area:**  
2  $\text{m}^2/\text{g}$

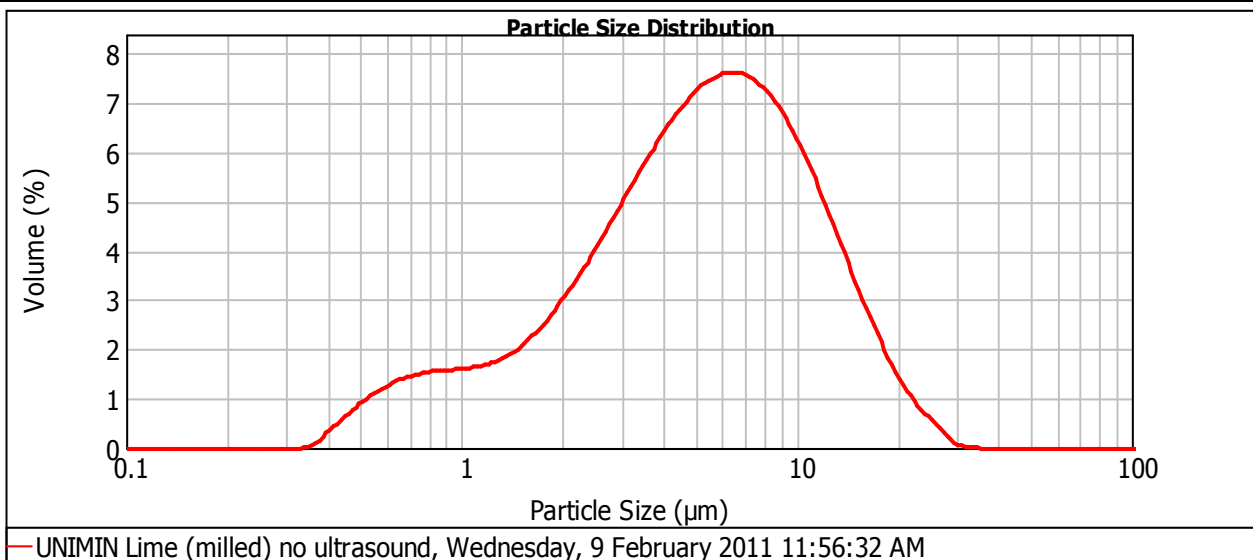
**Surface Weighted Mean D[3,2]:**  
2.994  $\mu\text{m}$

**Vol. Weighted Mean D[4,3]:**  
6.391  $\mu\text{m}$

**d(0.1):** 1.279  $\mu\text{m}$

**d(0.5):** 5.242  $\mu\text{m}$

**d(0.9):** 12.975  $\mu\text{m}$



Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %
0.010	0.00	0.105	0.00	1.096	1.52	11.482	4.40	120.226	0.00	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	1.67	13.183	3.44	138.038	0.00	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	1.93	15.136	2.52	158.489	0.00	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	2.30	17.378	1.70	181.970	0.00	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	2.78	19.953	1.04	208.930	0.00	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	3.35	22.909	0.60	239.883	0.00	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	3.97	26.303	0.21	275.423	0.00	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	4.61	30.200	0.02	316.228	0.00	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	5.25	34.674	0.00	363.078	0.00	3801.894	0.00
0.035	0.00	0.363	0.23	3.802	5.84	39.811	0.00	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.56	4.365	6.34	45.709	0.00	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.86	5.012	6.69	52.481	0.00	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	1.11	5.754	6.87	60.256	0.00	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	1.28	6.607	6.82	69.183	0.00	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	1.38	7.586	6.53	79.433	0.00	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	1.42	8.710	6.01	91.201	0.00	954.993	0.00	10000.000	0.00
0.091	0.00	0.955	1.45	10.000	5.28	104.713	0.00	1096.478	0.00		
0.105	0.00	1.096		11.482		120.226		1258.925	0.00		

**Operator notes:** rpm 2000

## Result Analysis Report

**Sample Name:**  
UNIMIN Lime (milled) with ultrasound

**SOP Name:**

**Measured:**  
Wednesday, 9 February 2011 11:58:06 AM

**Sample Source & type:**  
SiPowders

**Measured by:**  
Malvern

**Analysed:**  
Wednesday, 9 February 2011 11:58:07 AM

**Sample bulk lot ref:**

**Result Source:**  
Measurement

**Particle Name:**  
CaCO<sub>3</sub> (calcite)

**Accessory Name:**  
Hydro 2000MU (A)

**Analysis model:**  
General purpose

**Sensitivity:**  
Normal

**Particle RI:**  
1.572

**Absorption:**  
0.1

**Size range:**  
0.020 to 2000.000  $\mu\text{m}$

**Obscuration:**  
7.33 %

**Dispersant Name:**  
Water

**Dispersant RI:**  
1.330

**Weighted Residual:**  
1.724 %

**Result Emulation:**  
Off

**Concentration:**  
0.0031 %Vol

**Span :**  
2.281

**Uniformity:**  
0.703

**Result units:**  
Volume

**Specific Surface Area:**  
2.05  $\text{m}^2/\text{g}$

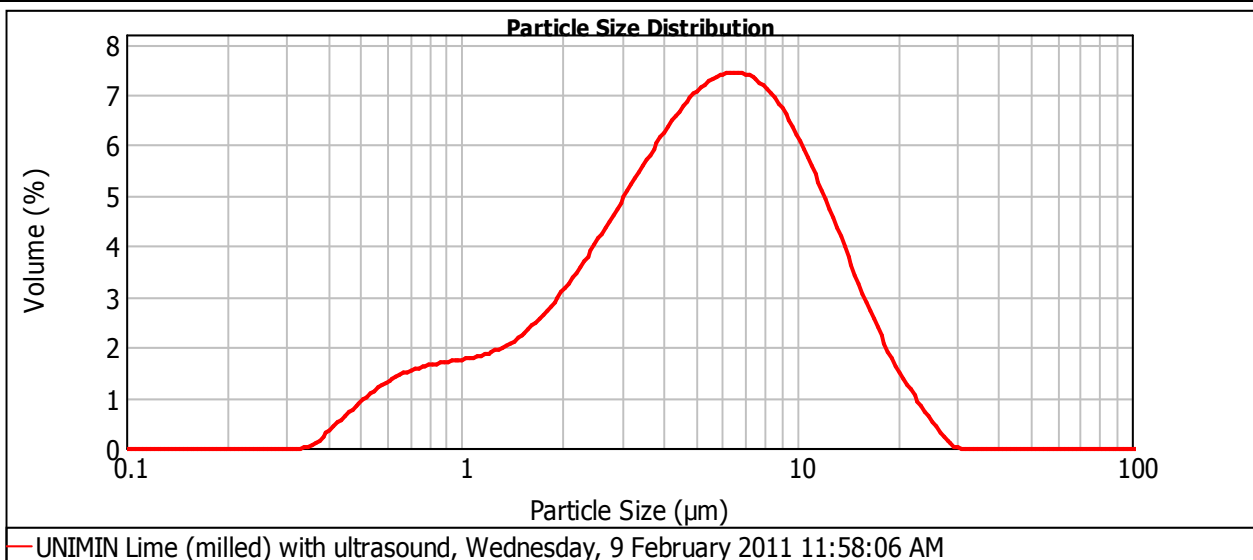
**Surface Weighted Mean D[3,2]:**  
2.927  $\mu\text{m}$

**Vol. Weighted Mean D[4,3]:**  
6.347  $\mu\text{m}$

**d(0.1):** 1.217  $\mu\text{m}$

**d(0.5):** 5.184  $\mu\text{m}$

**d(0.9):** 13.039  $\mu\text{m}$



Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %	Size ( $\mu\text{m}$ )	Volume In %
0.010	0.00	0.105	0.00	1.096	1.67	11.482	4.40	120.226	0.00	1258.925	0.00
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0.079	0.00	0.832	1.54	8.710	5.94	91.201	0.00	954.993	0.00	10000.000	0.00
0.091	0.00	0.955	1.59	10.000	5.24	104.713	0.00	1096.478	0.00		
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**Operator notes:** rpm 2000