



Shell & Bone Builder

Alden, IA

Shell & Bone Builder *calcium carbonate* is a large particulate product processed from quarried high calcitic limestone in Alden with calcium content ranging 38.0% or above.

% Ca	39.23
%CaCO ₃	98.08

Typical Analyses	
Mg	0.18%
Si	0.28%
Fe	0.24%
Na	0.03%
K	0.02%
S	0.16%
Mn	0.01%
P	0.01%
Cl	0.03%
Al	0.04%
Pb	14 ppm
Cd	0.54 ppm
V	2.1 ppm
H ₂ O	< 0.05%
Bulk Density	(lbs./cu.ft.)
Loose:	85
Packed:	87

% Acid Solubility	
Average	37.81
Maximum	40.92
Minimum	33.52

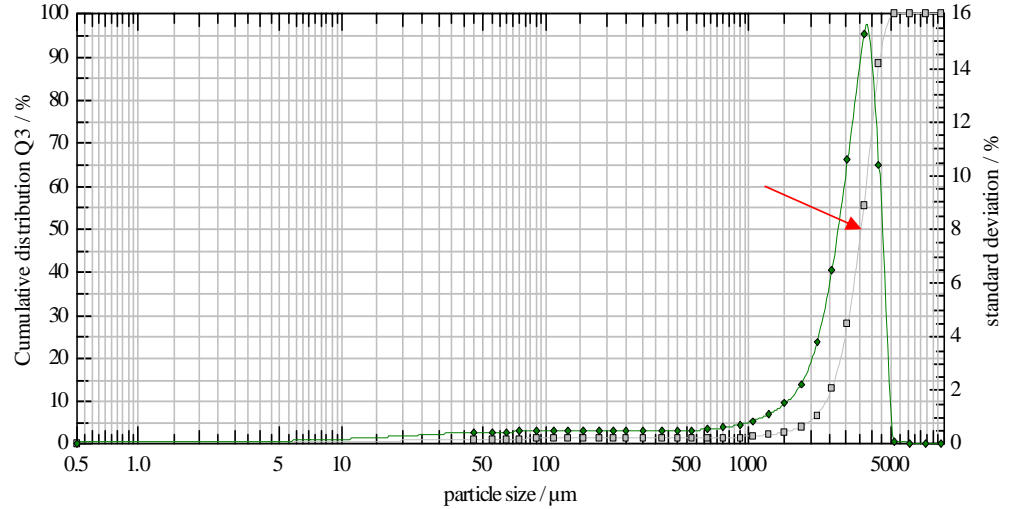
Surface Area (Sq.cm)/gm= 16
 Number Particles per gm= 87

Particle Distribution--U.S.Screen Comparison			
4 X 8 mesh			
Micron Size	U.S.Screen	% Retained	% Passing
4750	4	6.01	93.99
3350	6	52.62	41.37
2360	8	31.63	9.74
1700	12	6.44	3.30
1180	16	1.57	1.73
850	20	0.51	1.22
75	200	0.37	0.85
38	PAN	0.85	
TOTAL		100.00	

Particle Size Measurement -- Laser Diffraction**

Average Particle Size = **3562.36** microns

Ave particle size: half of the particles are above and half are below this point on the "S" shaped cumulative distribution graph.



μm = micron (1/1000 of a millimeter)

**Cumulative Distribution (% Passing through...)

Microns	%	Microns	%	Microns	%
8750	100	1250	1.86	185	0.87
7350	100	1050	1.50	155	0.87
6150	100	900	1.28	130	0.87
5150	100	750	1.11	110	0.87
4350	87.99	625	1.00	90	0.86
3650	55.17	525	0.94	75	0.86
3050	27.58	450	0.90	65	0.85
2550	12.75	375	0.89	55	0.84
2150	6.43	300	0.88	45	0.78
1800	3.71	250	0.87		
1500	2.48	215	0.87		