

## Shell & Bone Builder

Jasper, MO

Shell & Bone Builder is a coarse particulate CaCO<sub>3</sub> product processed from quarried high calcium limestone in Jasper, MO with minimum calcium content of 38%



## Particle Size Measurement -- Laser Diffraction

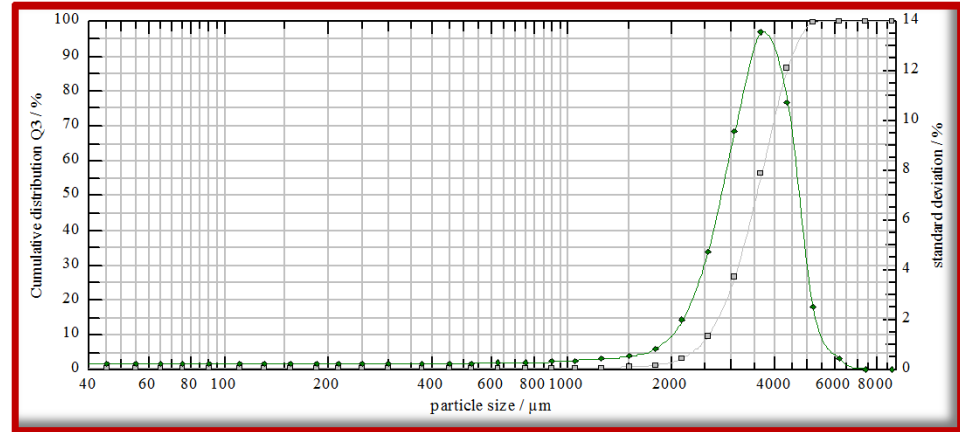
Average Particle Size = **3556.68** microns

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

**% Ca**            **39.56**  
**% CaCO<sub>3</sub>**      **98.90**

Typical Analyses		
Magnesium (Mg)	0.145	%
Silicon (Si)	0.09	%
Silica (SiO <sub>2</sub> )	0.20	%
Iron (Fe)	0.047	%
Sodium (Na)	0.030	%
Potassium (K)	0.012	%
Sulfur (S)	0.799	%
Manganese (Mn)	0.014	%
Phosphorus (P)	0.004	%
Chloride (Cl)	0.005	%
Chromium (Cr)	6	ppm
Aluminum (Al)	78	ppm
Boron (B)	11	ppm
Barium (Ba)	< 5	ppm
Lead (Pb)	< 5	ppm
Nickel (Ni)	< 5	ppm
Cobalt (Co)	< 5	ppm
Copper (Cu)	7	ppm
Zinc (Zn)	70	ppm
Cadmium (Cd)	< 5	ppm
Iodine (I)	7	ppm
Arsenic (As)	< 5	ppm
Beryllium (Be)	< 5	ppm
Selenium (Se)	0.181	ppm
Mercury (Hg)	<0.050	ppm
Vanadium (V)	< 5	ppm
Molybdenum (Mo)	< 5	ppm
Fluorine (F)	< 1	ppm
Bismuth (Bi)	< 5	ppm
Antimony (Sb)	< 5	ppm

% Acid Solubility	
Average	<b>38.86</b>
Maximum	<b>43.88</b>
Minimum	<b>26.62</b>
H <sub>2</sub> O	< 0.5%
Bulk Density	(lbs./cu.ft.)
Loose:	<b>84</b>
Packed:	<b>89</b>



$\mu\text{m}$  = micron (1/1000 of a millimeter)

Particle Distribution--U.S. Screen Comparison			
4 X 12 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
6700	<b>3</b>	0.0	100.0
5600	<b>3.5</b>	0.4	99.6
4750	<b>4</b>	28.4	71.2
3350	<b>6</b>	30.1	41.2
2360	<b>8</b>	34.7	6.4
2000	<b>10</b>	4.2	2.2
1700	<b>12</b>	1.4	0.9
1180	<b>16</b>	0.6	0.3
850	<b>20</b>	0.1	0.1
425	<b>40</b>	0.0	0.1
75	<b>200</b>	0.0	0.1
	<b>Pan</b>	0.1	
		100.0	

cumulative distribution (laser diffraction)			
Microns	% Passing	Microns	% Passing
8750	100	525	0.10
7350	100	450	0.10
6150	99.96	375	0.10
5150	99.24	300	0.10
4350	86.42	250	0.10
3650	55.99	215	0.10
3050	26.31	185	0.10
2550	9.45	155	0.10
2150	3.11	130	0.10
1800	1.07	110	0.10
1500	0.49	90	0.10
1250	0.29	75	0.10
1050	0.18	65	0.10
900	0.14	55	0.10
750	0.12	45	0.09
625	0.10		