

Shell & Bone Builder Blend

Savage, MN

Shell & Bone Builder Blend is a blend of coarse particulate CaCO₃ products processed in Savage from mined high calcium limestone with minimum calcium content of 38%



Particle Size Measurement -- Laser Diffraction

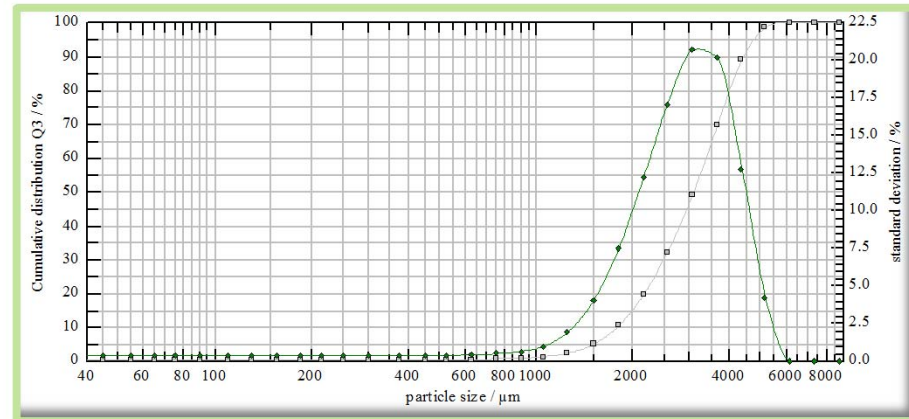
Average Particle Size = **3145.53** microns

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

% Ca 38.96
%CaCO₃ 97.40

Typical Analyses		
Magnesium (Mg)	0.869	%
Silicon (Si)	0.55	%
Silica (SiO ₂)	1.18	%
Iron (Fe)	0.279	%
Sodium (Na)	0.019	%
Potassium (K)	0.016	%
Sulfur (S)	0.935	%
Manganese (Mn)	0.031	%
Phosphorus (P)	0.005	%
Chloride (Cl)	0.001	%
Chromium (Cr)	< 5	ppm
Aluminum (Al)	186	ppm
Boron (B)	10	ppm
Barium (Ba)	< 5	ppm
Lead (Pb)	8	ppm
Nickel (Ni)	< 5	ppm
Cobalt (Co)	< 5	ppm
Copper (Cu)	14	ppm
Zinc (Zn)	72	ppm
Cadmium (Cd)	< 5	ppm
Iodine (I)	3	ppm
Arsenic (As)	< 5	ppm
Beryllium (Be)	< 5	ppm
Selenium (Se)	0.202	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	37.39
Maximum	46.63
Minimum	27.47
H ₂ O	< 0.5%
Bulk Density (lbs./cu.ft.)	
Loose:	89
Packed:	94



μm = micron (1/1000 of a millimeter)

Particle Distribution--U.S. Screen Comparison			
4 X 16 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
6700	3	0.0	100.0
5600	3.5	0.9	99.1
4750	4	5.4	93.7
3350	6	34.5	59.3
2360	8	33.1	26.1
2000	10	10.5	15.6
1700	12	7.1	8.5
1180	16	6.7	1.8
850	20	1.2	0.6
425	40	0.4	0.2
75	200	0.0	0.2
	Pan	0.2	
		100.0	

cumulative distribution (laser diffraction)			
Microns	% Passing	Microns	% Passing
8750	100	525	0.25
7350	100	450	0.22
6150	100	375	0.21
5150	98.41	300	0.20
4350	89.05	250	0.20
3650	69.63	215	0.20
3050	48.89	185	0.20
2550	32.07	155	0.20
2150	19.53	130	0.20
1800	10.34	110	0.20
1500	4.80	90	0.20
1250	2.15	75	0.20
1050	1.08	65	0.20
900	0.66	55	0.20
750	0.43	45	0.19
625	0.31		