

SuperCal 100

Gilmore City, IA

SuperCal 100 is a large particle sized granular CaCO₃ product processed from quarried high calcium limestone in Gilmore City, IA with minimum calcium content of 38%



Particle Size Measurement -- Laser Diffraction

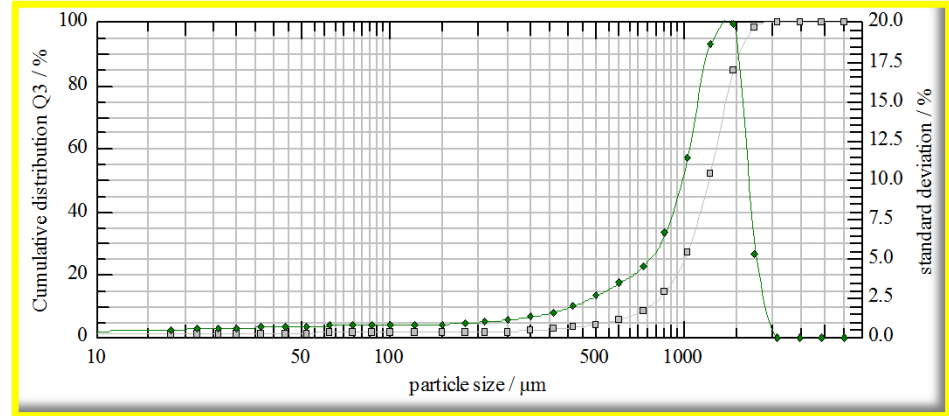
Average Particle Size = **1224.81** microns

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

% Ca 39.63
% CaCO₃ 99.08

Typical Analyses		
Magnesium (Mg)	0.403	%
Silicon (Si)	0.09	%
Silica (SiO ₂)	0.20	%
Iron (Fe)	0.112	%
Sodium (Na)	0.017	%
Potassium (K)	0.007	%
Sulfur (S)	0.789	%
Manganese (Mn)	0.014	%
Phosphorus (P)	0.005	%
Chloride (Cl)	0.001	%
Chromium (Cr)	8	ppm
Aluminum (Al)	19	ppm
Boron (B)	10	ppm
Barium (Ba)	< 5	ppm
Lead (Pb)	< 5	ppm
Nickel (Ni)	< 5	ppm
Cobalt (Co)	< 5	ppm
Copper (Cu)	15	ppm
Zinc (Zn)	87	ppm
Cadmium (Cd)	< 5	ppm
Iodine (I)	4	ppm
Arsenic (As)	< 5	ppm
Beryllium (Be)	< 5	ppm
Selenium (Se)	0.287	ppm
Mercury (Hg)	< 0.050	ppm
Vanadium (V)	< 5	ppm
Molybdenum (Mo)	< 5	ppm
Fluorine (F)	< .10	ppm
Bismuth (Bi)	< 5	ppm
Antimony (Sb)	< 5	ppm

% Acid Solubility	
Average	43.07
Maximum	47.98
Minimum	37.45
H ₂ O	< 0.5%
Bulk Density (lbs./cu.ft.)	
Loose:	84
Packed:	94



μm = micron (1/1000 of a millimeter)

Particle Distribution--U.S. Screen Comparison			
12 X 35 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
2000	10	0.3	99.7
1700	12	3.4	96.3
1400	14	20.0	76.3
1180	16	29.7	46.6
1000	18	21.4	25.3
710	25	17.2	8.1
500	35	4.3	3.9
425	40	0.9	3.0
355	45	0.7	2.3
300	50	0.4	1.9
212	70	0.5	1.4
180	80	0.1	1.3
150	100	0.1	1.2
75	200	0.1	1.2
10	Pan	1.1	
		100.0	

cumulative distribution (laser diffraction)			
Microns	% Passing	Microns	% Passing
3500	100	210	1.41
2940	100	180	1.30
2460	100	150	1.22
2060	100	120	1.17
1740	98.23	100	1.16
1460	84.51	86	1.15
1220	51.57	74	1.15
1020	26.83	62	1.14
860	14.38	52	1.12
720	8.36	44	1.10
600	5.42	36	1.07
500	3.86	30	1.04
420	2.92	26	1.02
360	2.34	22	0.99
300	1.88	18	0.90
250	1.59		