

Industrial Lime Blend

Weeping Water, NE
Plant #1

Ind. Lime Blend is a blend of large to small particle sized granular CaCO₃ product processed from mined high calcium limestone in Weeping Water, NE with minimum calcium content of 38%



Particle Size Measurement -- Laser Diffraction

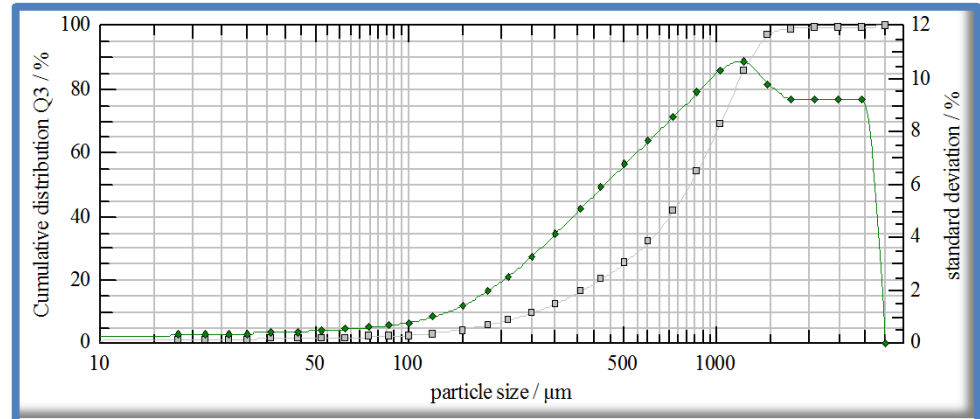
Average Particle Size = **837.00** microns

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

% Ca 38.82
% CaCO₃ 97.05

Typical Analyses		
Magnesium (Mg)	0.272	%
Silicon (Si)	0.73	%
Silica (SiO ₂)	1.56	%
Iron (Fe)	0.142	%
Sodium (Na)	0.025	%
Potassium (K)	0.024	%
Sulfur (S)	0.878	%
Manganese (Mn)	0.019	%
Phosphorus (P)	0.008	%
Chloride (Cl)	0.002	%
Chromium (Cr)	6	ppm
Aluminum (Al)	456	ppm
Boron (B)	14	ppm
Barium (Ba)	15	ppm
Lead (Pb)	< 5	ppm
Nickel (Ni)	< 5	ppm
Cobalt (Co)	< 5	ppm
Copper (Cu)	32	ppm
Zinc (Zn)	145	ppm
Cadmium (Cd)	< 5	ppm
Iodine (I)	3	ppm
Arsenic (As)	< 5	ppm
Beryllium (Be)	< 5	ppm
Selenium (Se)	0.56	ppm
Mercury (Hg)	<0.050	ppm
Vanadium (V)	< 5	ppm
Molybdenum (Mo)	14	ppm
Fluorine (F)	< 1	ppm
Bismuth (Bi)	< 5	ppm
Antimony (Sb)	< 5	ppm

% Acid Solubility	
Average	45.32
Maximum	49.19
Minimum	40.92
H ₂ O	< 0.5%
Bulk Density	(lbs./cu.ft.)
Loose:	94
Packed:	106



μm = micron (1/1000 of a millimeter)

Particle Distribution--U.S. Screen Comparison			
14 X 80 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
2000	10	1.0	99.0
1700	12	0.5	98.5
1400	14	4.5	94.1
1180	16	11.7	82.4
1000	18	15.5	67.0
710	25	26.4	40.5
500	35	15.5	25.1
425	40	4.9	20.2
355	45	4.5	15.7
300	50	3.5	12.3
212	70	5.2	7.1
180	80	1.7	5.4
150	100	1.4	4.0
75	200	2.2	1.8
10	Pan	1.7	
		100.0	

cumulative distribution (laser diffraction)			
Microns	% Passing	Microns	% Passing
3500	100	210	6.95
2940	99.08	180	5.37
2460	99.08	150	3.95
2060	99.07	120	2.81
1740	98.81	100	2.24
1460	96.81	86	1.93
1220	85.80	74	1.72
1020	68.84	62	1.55
860	53.74	52	1.41
720	41.31	44	1.30
600	31.97	36	1.20
500	25.06	30	1.10
420	19.85	26	1.04
360	16.03	22	0.95
300	12.26	18	0.84
250	9.23		