

Industrial Lime 325

Weeping Water, NE
Plant #1

Ind. Lime 325 is a powdered ground limestone product processed in Weeping Water, NE from mined high calcium limestone with minimum calcium content of 33%



Particle Size Measurement -- Laser Diffraction

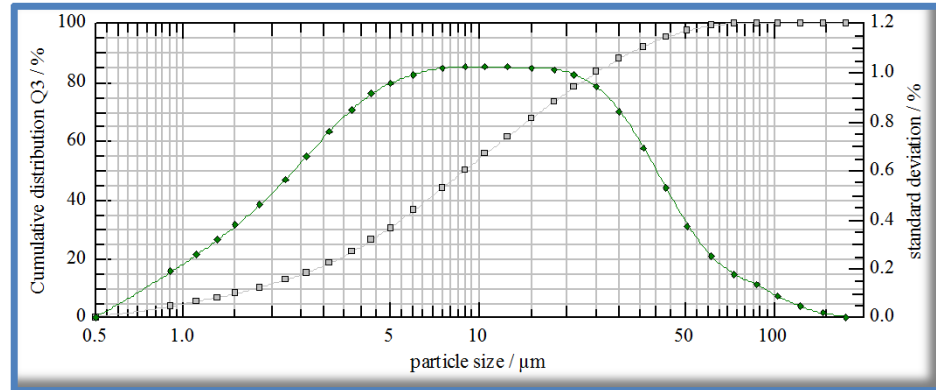
Average Particle Size = **8.96** microns

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

% Ca 37.79
%CaCO₃ 94.48

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	84.11
Maximum	91.06
Minimum	75.97
H ₂ O	< 0.5%
Bulk Density (lbs./cu.ft.)	
Loose:	55
Packed:	64



μm = micron (1/1000 of a millimeter)

Particle Distribution--U.S. Screen Comparison			
Minus 325 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
300	50	0.0	100.0
212	70	0.0	100.0
180	80	0.0	100.0
150	100	0.0	100.0
75	200	0.3	99.7
45	325	4.0	95.7
38	400	2.9	92.9
25	500	9.8	83.1
13	1000	21.7	61.4
6	2300	25.1	36.3
2.5	Pan	36.3	
		100.0	

cumulative distribution (laser diffraction)			
Microns	% Passing	Microns	% Passing
175	100	10.5	55.47
147	100	9	50.23
123	99.99	7.5	43.92
103	99.99	6	36.26
87	99.98	5	30.40
73	99.67	4.3	26.00
61	98.89	3.7	22.12
51	97.42	3.1	18.24
43	95.18	2.6	15.05
36	91.94	2.2	12.52
30	87.84	1.8	9.97
25	83.11	1.5	8.00
21	78.12	1.3	6.63
18	73.39	1.1	5.18
15	67.46	0.9	3.63
12.5	61.37		