



Unical-F

Alden, IA

Unical-F Calcium Carbonate is a fine coarse particulate product processed from quarried high calcitic limestone in Alden with calcium content ranging 38.0% or above.

% Ca	38.96
%CaCO ₃	97.40

Typical Analyses	
Mg	0.18%
Si	0.28%
Fe	0.24%
Na	0.03%
K	0.02%
S	0.16%
Mn	0.01%
P	0.01%
Cl	0.03%
Al	0.04%
Pb	14 ppm
Cd	0.54 ppm
V	2.1 ppm
H ₂ O	< 0.05%
Bulk Density	(lbs./cu.ft.)
Loose:	81
Packed:	85

% Acid Solubility	
Average	43.48
Maximum	45.28
Minimum	40.87

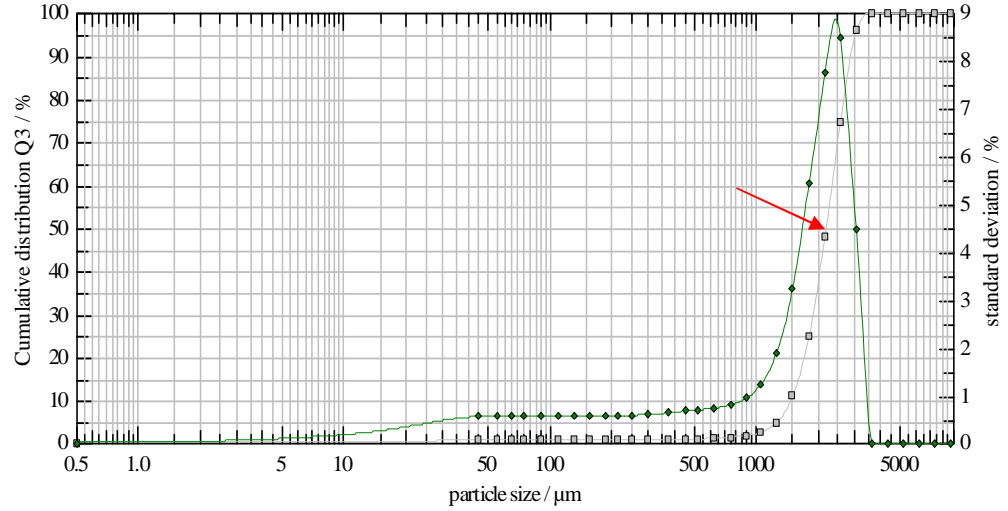
Surface Area (Sq.cm)/gm= 37
 Number Particles per gm= 1,166

Particle Distribution--U.S.Screen Comparison			
6 X 16 mesh			
Micron Size	U.S.Screen	% Retained	% Passing
3350	6	2.1	97.9
2360	8	36.0	61.9
2000	10	23.8	38.1
1700	12	17.9	20.2
1180	16	16.3	3.9
850	20	2.4	1.5
425	40	0.8	0.7
75	200	0.1	0.6
30	PAN	0.7	
TOTAL		100.0	

Particle Size Measurement -- Laser Diffraction**

Average Particle Size == **2186.40** microns

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



μm = micron (1/1000 of a millimeter)

**Cumulative Distribution (% Passing through...)

Microns	%	Microns	%	Microns	%
8750	100	1250	4.69	185	0.67
7350	100	1050	2.49	155	0.67
6150	100	900	1.67	130	0.67
5150	100	750	1.22	110	0.66
4350	100	625	0.97	90	0.66
3650	100	525	0.81	75	0.65
3050	95.71	450	0.73	65	0.65
2550	74.46	375	0.70	55	0.65
2150	47.92	300	0.68	45	0.59
1800	24.88	250	0.67		
1500	10.80	215	0.67		