



Unical-P

Alden, IA

Unical-P Calcium Carbonate is a finely ground product processed from quarried high calcitic limestone in Alden with calcium content ranging 38.0% or above.

% Ca	38.41
%CaCO₃	96.03

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:	61
Packed:	67

% Acid Solubility	
Average	75.30
Maximum	76.63
Minimum	73.53

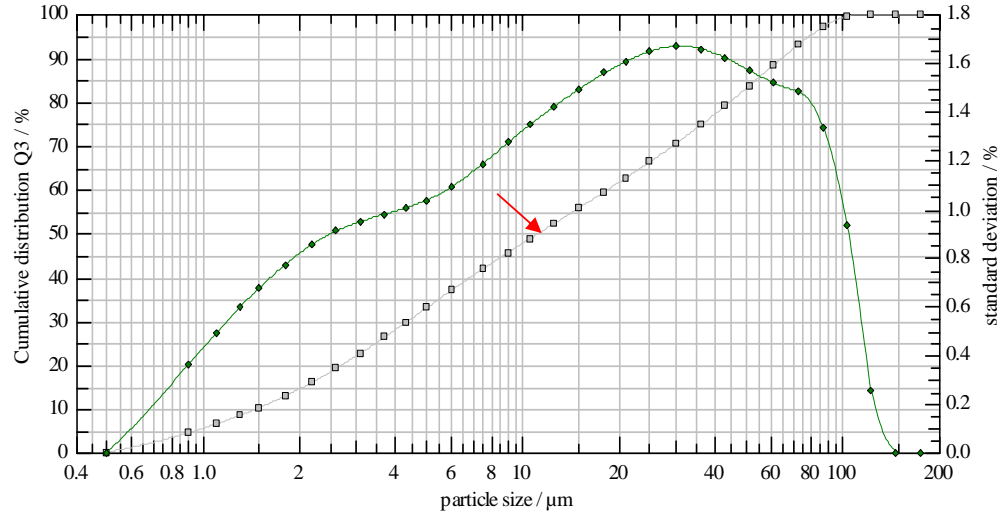
Surface Area (Sq.cm)/gm= 1073
 Number Particles per gm= 11,164,356

Particle Distribution--U.S.Screen Comparison			
Minus 200 mesh			
Micron Size	U.S.Screen	% Retained	% Passing
250	60	0.0	100.0
180	80	0.0	100.0
150	100	0.0	100.0
90	200	6.3	93.7
75	325	13.4	80.3
45	400	4.3	75.9
8	PAN	75.9	
TOTAL		100.0	

Particle Size Measurement -- Laser Diffraction**

Average Particle Size = 11.29 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	%
175	100	25	66.31	3.7	26.29
147	100	21	62.61	3.1	22.56
123	99.86	18	59.45	2.6	19.10
103	99.47	15	55.76	2.2	16.09
87	97.05	12.5	52.14	1.8	12.81
73	93.12	10.5	48.69	1.5	10.19
61	88.47	9	45.62	1.3	8.36
51	83.64	7.5	41.86	1.1	6.44
43	79.12	6	37.01	0.9	4.45
36	74.63	5	32.96		
30	70.34	4.3	29.59		