

Trapdressing

Alden, IA

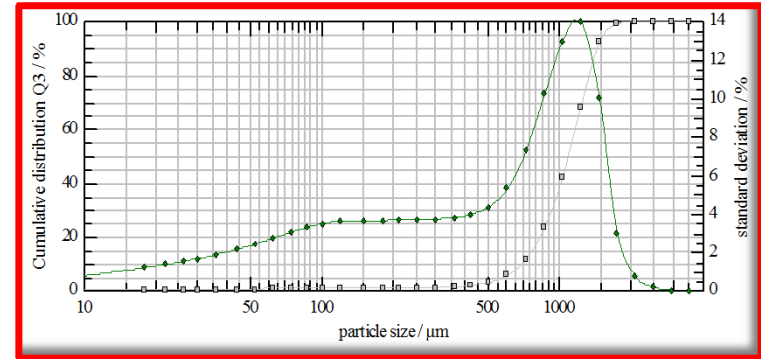
Trapdressing is a large granular CaCO₃ product processed from quarried high calcium limestone in Alden with minimum calcium content of 38%



Particle Size Measurement -- Laser Diffraction**

Average Particle Size = **1088.76** microns (μm = 1/1000th millimeter)

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



Turf Diagnostics & Design						
Bunker Sand Evaluation		Particle Size Evaluation				
Dry Color	10YRT 7/2 Light Gray	%Sand	%Silt	%Clay	Gravel	
Penelometer Value (Kg/cm2)	4.4	2.0-0.05 mm	0.05-0.002mm	<0.002mm	2.0(10)	
Shape Angularity	Sub-Rounded to Sub-Angular	94.7	1.8	3.5	0.0	
Shape Sphericity	Medium	≥ 92%	≤ 5%	≤ 3%	≤ 3%	
Acid Reaction	Severe	USGA Recommendations for Greens				
Crusting	Slight	%Retained on USGA mm (US sieve)				
Set-Up	Moderate	V. Coarse	Coarse	Medium	Fine	V. Fine
Infiltration Rate		1.0 (18)	0.5 (35)	0.25 (60)	.015 (100)	0.05 (270)
Infiltration Rate (in/hr)	270	43.8	47.3	2.4	0.8	0.6
Moisture Content at Packing (% Dry Wt.)	7.9	≤ 7%**	≥ 60% Combined		≤ 20%	≤ 5%
Bulk Density (g/cc)	1.37	USGA Recommendations for Greens				
		Uniformity Coefficient	D15	D50	D85	
		Cu	mm	mm	mm	
		2.1	0.55	0.91	1.58	

Typical Analyses					
Magnesium (Mg)	0.118	%	Copper (Cu)	29	ppm
Silicon (Si)	0.07	%	Zinc (Zn)	118	ppm
Silica (SiO ₂)	0.14	%	Cadmium (Cd)	< 5	ppm
Iron (Fe)	0.145	%	Iodine (I)	2	ppm
Sodium (Na)	0.021	%	Arsenic (As)	< 5	ppm
Potassium (K)	0.009	%	Beryllium (Be)	< 5	ppm
Sulfur (S)	0.888	%	Selenium (Se)	0.252	ppm
Manganese (Mn)	0.015	%	Mercury (Hg)	< 0.050	ppm
Phosphorus (P)	0.007	%	Vanadium (V)	< 5	ppm
Chloride (Cl)	0.004	%	Molybdenum (Mo)	< 5	ppm
Chromium (Cr)	7	ppm	Fluorine (F)	< 1	ppm
Aluminum (Al)	107	ppm	Bismuth (Bi)	< 5	ppm
Boron (B)	10	ppm	Antimony (Sb)	< 5	ppm
Barium (Ba)	< 5	ppm			
Lead (Pb)	< 5	ppm			
Nickel (Ni)	< 5	ppm			
Cobalt (Co)	< 5	ppm			

% Ca	39.53
% CaCO ₃	98.83
H ₂ O	< 0.5%
Bulk Density	(lbs./cu.ft.)
Loose:	77
Packed:	83

Particle Distribution--U.S. Screen Comparison			
12 X 35 mesh product			
Micron Size	U.S. Screen	% Retained	% Passing
2000	10	0.3	99.8
1700	12	1.7	98.1
1400	14	12.0	86.1
1180	16	23.2	62.9
1000	18	23.3	39.6
710	25	28.4	11.2
500	35	8.1	3.1
425	40	1.1	2.0
355	45	0.6	1.4
300	50	0.3	1.1
212	70	0.3	0.7
180	80	0.1	0.6
150	100	0.0	0.6
75	200	0.1	0.6
10	Pan	0.6	
		100.0	