FreFlo

Weeping Water, NE
Plant #1

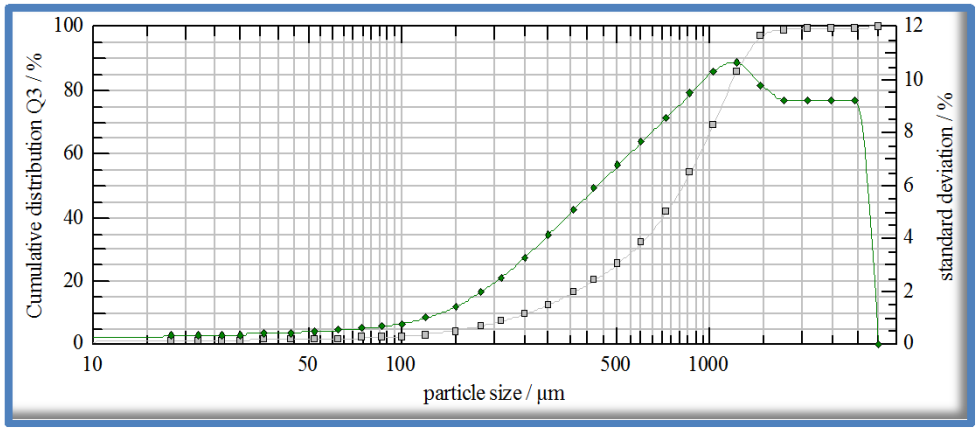
FreFlo is a blend of large to small particle sized granular $CaCO_3$ product processed from mined high calcium limestone in Weeping Water, NE with minimum calcium content of 38%

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**
%$CaC0_3$	**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_20	< 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		