



## Shell & Bone Builder Blend

Alden, IA

SBBldr Blend *calcium carbonate* is a blend of large particulate products processed from quarried high calcitic limestone in Alden with calcium content ranging 38.0% or above.

|                          |              |
|--------------------------|--------------|
| <b>% Ca</b>              | <b>39.15</b> |
| <b>%CaCO<sub>3</sub></b> | <b>97.88</b> |

| 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 <sub>2</sub> O    | < 0.05%              |
| <b>Bulk Density</b> | <b>(lbs./cu.ft.)</b> |
| Loose:              | 85                   |
| Packed:             | 88                   |

| % Acid Solubility |              |
|-------------------|--------------|
| <b>Average</b>    | <b>41.22</b> |
| Maximum           | 43.93        |
| Minimum           | 37.47        |

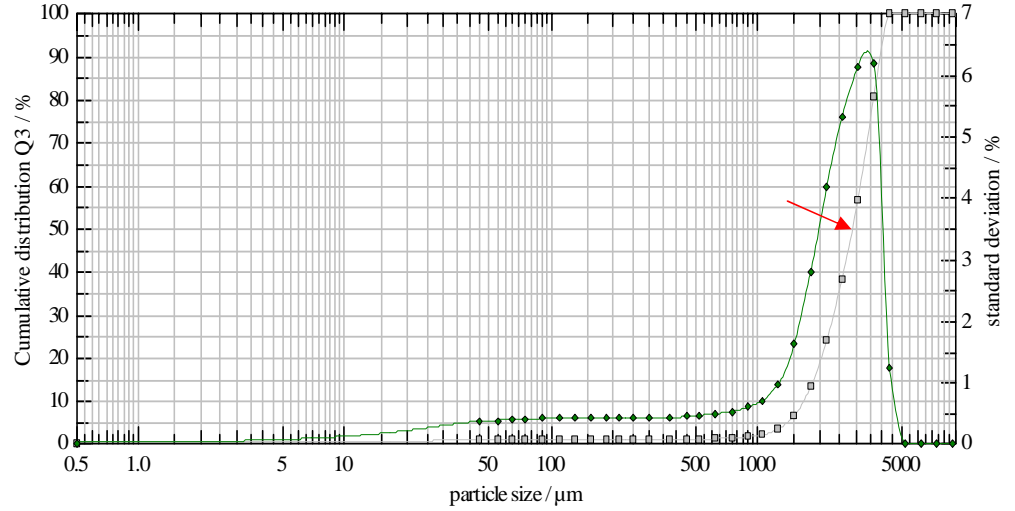
Surface Area (Sq.cm)/gm= 26  
 Number Particles per gm= 395

| Particle Distribution--U.S.Screen Comparison |            |              |             |
|--|------------|--------------|-------------|
| 4 X 16 mesh                                  |            |              |             |
| Micron Size                                  | U.S.Screen | % Retained   | % Passing   |
| <b>4750</b>                                  | <b>4</b>   | <b>0.2</b>   | <b>99.9</b> |
| <b>3350</b>                                  | <b>6</b>   | <b>31.3</b>  | <b>68.6</b> |
| <b>2360</b>                                  | <b>8</b>   | <b>37.3</b>  | <b>31.2</b> |
| <b>1700</b>                                  | <b>12</b>  | <b>20.5</b>  | <b>10.8</b> |
| <b>1180</b>                                  | <b>16</b>  | <b>8.1</b>   | <b>2.7</b>  |
| <b>850</b>                                   | <b>20</b>  | <b>1.4</b>   | <b>1.2</b>  |
| <b>75</b>                                    | <b>200</b> | <b>0.5</b>   | <b>0.7</b>  |
| <b>38</b>                                    | <b>PAN</b> | <b>0.7</b>   |             |
| <b>TOTAL</b>                                 |            | <b>100.0</b> |             |

## Particle Size Measurement -- Laser Diffraction\*\*

**Average Particle Size = 2877.66 microns**

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



$\mu\text{m}$  = micron (1/1000 of a millimeter)

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

| Microns | %     | Microns | %    | Microns | %    |
|---------|-------|---------|------|---------|------|
| 8750    | 100   | 1250    | 3.10 | 185     | 0.72 |
| 7350    | 100   | 1050    | 1.84 | 155     | 0.72 |
| 6150    | 100   | 900     | 1.34 | 130     | 0.72 |
| 5150    | 100   | 750     | 1.04 | 110     | 0.72 |
| 4350    | 99.70 | 625     | 0.87 | 90      | 0.71 |
| 3650    | 80.56 | 525     | 0.77 | 75      | 0.71 |
| 3050    | 56.56 | 450     | 0.73 | 65      | 0.70 |
| 2550    | 38.00 | 375     | 0.72 | 55      | 0.69 |
| 2150    | 23.76 | 300     | 0.72 | 45      | 0.63 |
| 1800    | 12.98 | 250     | 0.72 |         |      |
| 1500    | 6.29  | 215     | 0.72 |         |      |