

# Carthage Crushed Limestone

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## Description

Ground, screened and air classified granular and powder grades produced from high calcium calcitic limestone quarried from underground mines. "Calcite, "crushed marble", "ground limestone" are synonymous with ground natural "calcium carbonate".

## Screen Analysis (Typical) slight variations due to segregations etc...

| Cumulative % Thru US Screening | C-610C |
|--------------------------------|--------|
| 3 Mesh (1/4")                  |        |
| 4 Mesh (3/16")                 |        |
| 6 Mesh (1/8")                  | 99.9   |
| 8 Mesh (3/32")                 | 95     |
| 12 Mesh (1/16")                | 58     |
| 16 Mesh (3/64")                | 13     |
| 20 Mesh (1/32")                | 4      |
| 40 Mesh (.016")                |        |
| 60 Mesh (.010")                |        |
| 100 Mesh (.006")               |        |
| 200 Mesh (.003")               |        |
| 325 Mesh (.002")               |        |

|                               |     |
|-------------------------------|-----|
| Average Bulk Density (lbs/ft) | 100 |
|-------------------------------|-----|

|                              |   |
|------------------------------|---|
| Color                        | Off white, light gray tint                          |
| Alkalinity (as NaOH)         | 0.2 mg / g  |
| pH                           | 9.3 (saturated solution)                            |
| Hardness                     | 3 Moh, non-abrasive                                 |
| Solubility                   | 0.0035 gm / 100 ml H <sub>2</sub> O @ 100° C        |
| Particle Shape               | Irregular, uniaxial                                 |
| Specific Gravity             | 2.71 g / cm <sup>3</sup>                            |
| Refractive Index             | 1.6   |
| Weight / Solid Gallon        | 22.6 lbs / solid gallon (0.0443 solid gallon / lb.) |
| Linear Expansion Coefficient | 4.3 x 10 / C  |
| Moisture                     | 0.10%   |

## Chemical Analysis (Typical)

|  |                |  |                |
|--|----------------|--|----------------|
| Calcium Carbonate (CaCO <sub>3</sub> )           | 95%            | Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | 0.15%          |
| Magnesium Carbonate (MgCO <sub>3</sub> )         | 0.80%          | Manganese Oxide (MnO)                        | 0.04%          |
| Silica and Silicates (SiO <sub>2</sub> )         | less than 3%   | Copper Oxide (CuO)                           | 2 ppm          |
| Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) | 0.15%          | Lead (Pb & Hg)                               | less than 3ppm |
| Cadmium  | less than 1ppm | Arsenic                                      | less than 2ppm |

## Disclaimer

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