

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 Scree	C-4	C-5	C-16200	C-610C	Grit
3 Mesh (1/4")					
4 Mesh (3/16")					
6 Mesh (1/8")				99.9	99.18
8 Mesh (3/32")				95	11.54
12 Mesh (1/16")		99.9	99.9	58	2.78
16 Mesh (3/64")		97	95	13	
20 Mesh (1/32")		88	83	4	
40 Mesh (.016")	99.8	67	50		
60 Mesh (.010")	99	50	25		
100 Mesh (.006")	90	35	7		
200 Mesh (.003")	62	20	2		
325 Mesh (.002")	50	18			

Average Bulk Density (lbs/ft ³)	85	90	95	100	85
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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 ₂ O @ 100° C
Particle Shape	Irregular, uniaxial
Specific Gravity	2.71 g / cm ³
Refractive Index	1.6
Weight / Solid Gallon	22.6 lbs / solid gallon (0.0443 solid gallon / lb.)
Linear Expansion Coefficient	4.3 x 10 ⁻⁶ / C
Moisture	0.10%

Chemical Analysis (Typical)

Calcium Carbonate (CaCO ₃)	97%	Iron Oxide (Fe ₂ O ₃)	0.15%
Magnesium Carbonate (MgCO ₃)	0.80%	Manganese Oxide (MnO)	0.04%
Silica and Silicates (SiO ₂)	less than 3%	Copper Oxide (CuO)	2 ppm
Aluminum Oxide (Al ₂ O ₃)	0.15%	Metals (Pb & Hg) less than	<1ppm

Disclaimer

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