



Discovering what's possible with calcium

VitaCal® PCC

Food Grade Precipitated Calcium Carbonate

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Mississippi Lime VitaCal® PCC is a high purity calcium carbonate, which meets or exceeds Food Chemical Codex specifications. Food processing chemists have specified Mississippi Lime for more than 40 years. With low lead (less than 0.4 ppm), it is one of the lowest lead PCC's for your Food Chemical Codex applications.

TYPICAL CHEMICAL PROPERTIES	
CaCO ₃	98.75%
Magnesium & Alkali Salts	0.8%
Fluoride	0.004%
Lead	0.4 ppm
Arsenic	< 0.5 ppm
Acid Insoluble Substances	0.07%
Silicon	0.2%
Heavy Metals	1.33 ppm
Alumina	0.05%
Iron	0.03%
Sulfur	0.01%
Free Moisture	0.5%
Phosphorus	30 ppm
Manganese	10 ppm
Calcium	39.5%
Crystalline Silica	<0.1%

- ✓ Certified to FCC 11th Edition
- ✓ Certified to Kosher-Pareve
- ✓ Certified to NSF Standard 60

VitaCal® - Purity is the Difference

TYPICAL PHYSICAL PROPERTIES	
Crystal Type	Acicular Aragonite
Median Particle Size - Sedigraph	1.2 micron
BET Surface Area	10 m ² /g
pH	9.0
Dry Brightness (GE)	97
Specific Gravity	2.85
Residue +325 mesh	0.01%
Apparent Dry Bulk Density - Loose	22 lbs./ft ³
Apparent Dry Bulk Density - Packed	38 lbs./ft ³

FOOD CHEMICALS CODEX SPECIFICATIONS, 11 th ED.	
Assay CaCO ₃	98.0%- 100.5%
Loss on Drying	Less than 2.0%
Magnesium & Alkali Salts	Less than 1%
Fluoride	Less than 0.005%
Lead	Less than 3 ppm
Arsenic	Less than 3 ppm
Acid Insoluble Substances	Less than 0.2%



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