



Discovering what's possible with calcium

# VitaCal® O

## Food Grade Calcium Oxide

TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

Mississippi Lime VitaCal® O Calcium Oxide is a high purity pulverized product which meets or exceeds the Food Chemical Codex specifications. Because of purity and consistency, food processing chemists have specified Mississippi Lime VitaCal® products for more than 40 years. With low lead (<0.5 ppm), VitaCal® O is one of the lowest lead calcium oxides available for your all of your Food Chemical Codex applications.

TYPICAL CHEMICAL PROPERTIES	
CaO - Total	97.5%
CaO - Available	95.0%
Calcium	69.6%
CO <sub>2</sub>	0.4%
LOI	<1.5%
Magnesium & Alkali Salts	<3.6%
Fluoride (F)	<0.015%
Magnesium (Mg)	0.5%
Acid Insoluble Substances	<0.5%
Arsenic (As)	<2 ppm
Lead (Pb)	<1 ppm
Alumina (Al)	0.1%
Iron (Fe)	0.05%
Silica (Si)	0.7%
Crystalline Silica	<0.1%
Sulfur (S)	0.01%
Phosphorus (P)	0.01%
Manganese (Mn)	15 ppm

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity	3.3
pH	12.4
-325 Mesh (45 µm)	99.0%
Apparent Dry Bulk Density - Loose	58 lbs./ft <sup>3</sup>
Apparent Dry Bulk Density - Packed	78 lbs./ft <sup>3</sup>
Reactivity 180 sec.	<60 °C

FOOD CHEMICALS CODEX SPECIFICATIONS, EIGHTH ED.	
Assay CaO	95.0%- 100.5%
Acid Insoluble Substances	Less than 1%
Arsenic	Less than 3 ppm
LOI	Less than 10%
Fluoride	Less than 0.015%
Lead	Less than 2 ppm
Magnesium & Alkali Salts	Less than 3.6%



Telephone: 800.437.5463  
 Contact: sales@mississippilime.com  
 Web site: www.mississippilime.com

- ✓ Certified to FCC 8th Edition
- ✓ Certified to Kosher-Pareve
- ✓ Certified to NSF Standard 60
- ✓ Certified to AWWA standard B202-02

**VitaCal® - Purity is the Difference**

All information provided and recommendations made herein are intended to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use in order to make their own final decision regarding suitability. We do not guarantee results, freedom from patent infringement, or suitability of resultant products for any suggested application with respect to the use of any formula or material described herein.