



Discovering what's possible with calcium

# VitaCal® H

## Food Grade Calcium Hydroxide

TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

Mississippi Lime VitaCal® H Calcium Hydroxide is a high purity 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 ultra low lead (< 0.1 ppm) and arsenic (<0.3 ppm), VitaCal® H is one of the highest purity calcium hydroxides available for all of your Food Chemical Codex applications.

TYPICAL CHEMICAL PROPERTIES	
Ca(OH) <sub>2</sub> - Total	98.5%
Ca(OH) <sub>2</sub> - Available	97.0%
Calcium	53.2%
Free Moisture	0.5%
CO <sub>2</sub>	0.5%
Sulfur (S)	0.01%
Crystalline Silica	<0.1%
Lead (Pb)	<0.1 ppm
Arsenic (As)	<0.3 ppm
Fluoride (F)	0.004%
Magnesium & Alkali Salts	0.8%
Acid Insoluble Substances	<0.5%
Silica (Si)	0.4%
Alumina (Al)	0.1%
Iron (Fe)	0.03%
Magnesium (Mg)	0.3%
Phosphorus (P)	30 ppm
Manganese (Mn)	10 ppm

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity	2.3
Dry Brightness (L)	94
Median Particle Size	4 micron
pH	12.4
BET Surface Area	17.5 m <sup>2</sup> /g
-100 Mesh (150 µm)	99.9%
-200 Mesh (75 µm)	99.8%
-325 Mesh (45 µm)	98.0%
Apparent Dry Bulk Density - Loose	26 lbs./ft <sup>3</sup>
Apparent Dry Bulk Density - Packed	43 lbs./ft <sup>3</sup>

FOOD CHEMICALS CODEX SPECIFICATIONS, EIGHTH ED.	
Assay Ca(OH) <sub>2</sub>	95.0%- 100.5%
Carbonate	Passes Test
Magnesium & Alkali Salts	Less than 4.8%
Fluoride	Less than 0.005%
Lead	Less than 2 ppm
Arsenic	Less than 3 ppm
Acid Insoluble Substances	Less than 0.5%

- ✓ 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***



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