



Niva Minerals®

a division of Niva, c. por a.

KAL 60® 325 MESH Natural High Purity USP Ground Calcium Carbonate

Niva KAL® GCC Family is a natural high purity Ground Calcium Carbonate. It's superior purity and performance distinguishes them from competitive natural or precipitated products.

Niva KAL® is rich in calcium. Is 40% elemental calcium. It takes only 1 gram of **Niva KAL®** to add 400 milligrams of calcium to your product. Performs as an 40% excellent elemental calcium supplement because it is very absorbable. Is the purest available Calcium Carbonate with the lowest level of Lead, Arsenic, Heavy Metals, Fluoride, Alkali Salts.

Niva KAL® USP Ground Calcium Carbonate Family contain less than 125 part per billion lead, and enables requirements of California Proposition 65.

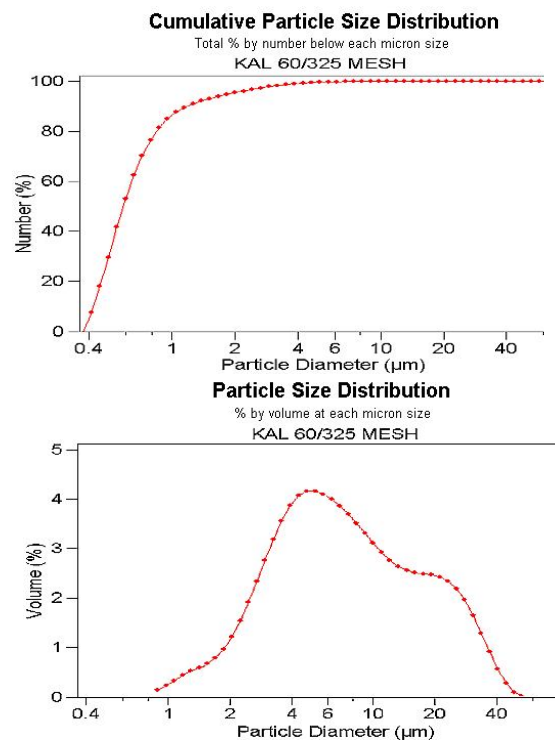
Niva KAL® USP GCCs meet and exceed the requirements for Calcium Carbonate of the United States Pharmacopoeia, Food Chemicals Codex, Japanese Pharmacopoeia, European Pharmacopoeia. Calcium Carbonate is recognized GRAS (Generally Recognized As Safe) by the FDA (21 CFR 184.1191) with no limitations other than good manufacturing practices. This makes calcium carbonate suitable for both direct and indirect food applications.

Niva KAL® USP GCC Family are manufactured in the **Niva Minerals®** plant in La Descubierta, Dominican Republic, with natural and high quality standards, certificated by ISO 9001-2000, NSF, cGMP Facility and U.S.FDA registered, number: 17288105124.

Niva KAL® Family Advantages :

- ✓ The low abrasivity means less wear on processing and tableting equipment, meaning lower production cost and higher throughput.
- ✓ The high Calcium content reduces the cost of adding valuable levels of Calcium fortification to products.
- ✓ Meets U.S. Pharmacopoeia Requirements.
- ✓ Meets Japanese, European Pharmacopoeia Requ.
- ✓ Meets Poland, Russia Pharmacopoeia Requirements
- ✓ Excellent Sensory Performance.
- ✓ Enables CA Proposition 65 compliance.
- ✓ Consistent Quality.
- ✓ Superior sensory perception.
- ✓ Superior bioavailability.
- ✓ Low cost.

KAL 60® is a very low lead UPS Calcium Carbonate, which rhombohedral particle, and medium oil absorption, very mild abrasive and high surface area. 50% (by volume) of it's particles are inferior to 6.5 microns. 99.9% (by volume) of it's particles are inferior to 44.0 microns. Due to this, it contains a high density of very-fine and medium-fine powder.



Applications:

Is specifically tailored to meet the challenging applications and requirements of the Pharmaceutical and Nutritional supplement industries.

The formulators are able to develop antacids and chewable supplement tablets with a more pleasing textures with it due to it's superior sensory performance.

For larger or chewable tablets, the **KAL 60®** are best. Due to it's characteristics it minimizes the effect on taste it's ideal for masticating agent in chewing gums, foods, beverages, liquid supplements, effervescent, chewable and swallowable tablets, toothpastes and others.

Typical Physical Properties

Crystal habit	Calcite
Particle Shape	Rhombohedral
Particle Size, median, microns (by volume)	6.3
mode, microns (by Volume)	6.6
Surface Area, cm ² /ml	16.0
Oil Absorption, g. oil/100 grams	18
Tapped Density, grams/cc	1.16
Bulk Density, grams/cc	0.58
Specific Gravity	2.72
pH	9.7
Moisture, %	0.2
Dry Brightness Hunter(Gr value)	92.5
Lead, parts per billion	< 125
Solubility, in water, pH 7	insoluble
In acid	soluble

Regulatory Approvals:

This product meets the requirements for use in pharmaceutical applications under the US, European, Japanese, Poland, Russia Pharmacopoeia. The Niva Minerals facility is recognized by U.S.FDA, and ISO 9001-2000 and cGMP certified.

This product also meets the requirements for use as a direct food additive under 21 CFR (FDA) 184.1191 and the Food Chemicals Codex.

Packaging :

KAL 60® USP GCC is packaged in 50 pound kraft paper bags. The standard shipping unit is a 48" x 40" GMA 4-way pallet of 50 bags, a total of 2,500 pounds. Pallets include slip sheets and shrink-wrap. Semi-bulk packaging, typical in 2,500 pound sacks is also available.

Test	Specifications	Niva KAL®
Calcium Carbonate	> 98.5%	> 99%
Loss on Drying	< 1.0%	< 1.0%
Magnesium and Alkali Salts	< 0.5%	< 0.5%
Acid Insolubles	< 0.2%	< 0.2%
Lead	< 3 ppm	< 0.125 ppm
Arsenic	< 3 ppm	< 0.5 ppm
Fluoride	< 0.005%	< 0.005%
Barium	Pass	Pass
Iron	< 0.1%	< 0.01%
Mercury	< 0.5 ppm	< 0.1 ppm
Heavy Metals	< 0.002%	< 0.002%
Chlorides	< 330 ppm	< 35 ppm
Sulfates	< 0.25%	< 0.25%
Total Yeasts and Molds	< 300 CFU/g	< 100 CFU/g
Total Aerobic Microbial Co.	< 3000 CFU/g	< 1000 CFU/g

KAL 60® meets also the requirements for use in Poland, Russia, European Union Pharmacopoeia:

Test	Niva KAL®	Test	Niva KAL®
Antimony ppm	<0.02	Cadmium ppm	<0.10
Zinc ppm	< 50.0	Copper ppm	<2.0
Chromium ppm	<6.0	Barium µg/g	<20.0
Crystal. Silica%	<0.01	Magnesium %	0.10

Contact inside Sales **Niva Minerals®** for details.

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Fax: (809) 687-9300

International Sales Offices:

Verona-Italy
Andernach-Germany

Visit Our Website:

www.nivaminerals.com

For Information and Samples:

Inside Sales
Direct dial (809) 685-3820
E-mail: NivaMinerals@internet.net.do

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Created by Niva c. por a. FO-AV-12 **ESKAL 60®** version 01- 2004 (ISO 9001-2000)

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