

FEATURES

- ▶ Ultra low-lead, <125 ppb
- ▶ Meets current United States Pharmacopeia standards
- ▶ Calorie-free, Carbohydrate-free, Fat-free, Non-dairy; Lactose-free
- ▶ High bioavailability
- ▶ Controlled particle morphology

BENEFITS

- ▶ Highest calcium concentration
- ▶ Can be an active ingredient or excipient in pharmaceutical applications
- ▶ Better Mouth Feel than ground carbonates
- ▶ Provides good suspension
- ▶ Economical

TYPICAL APPLICATIONS

- ▶ Nutritional Supplements
- ▶ Chewable & swallowed tablets, soft chews, lozenges, effervescent, gums
- ▶ Beverages, liquid supplements, powdered drink mixes (Soy or milk based)
- ▶ Cereals, baked goods, breakfast foods
- ▶ Snack foods, nutrition bars, crackers
- ▶ Dairy products, milk, ice cream, yogurt
- ▶ Vitamin/ mineral premixes
- ▶ OTC and proprietary pharmaceuticals
- ▶ Antacids
- ▶ Natural rubber detackification (Surgical gloves, condoms, slab dip, crumb)

CalEssence®

USP/ FCC Precipitated Calcium Carbonates

Product Description

CalEssence® Precipitated Calcium Carbonates (PCCs) are a family of ultra low-lead calcium carbonate products developed with enhanced purity for those manufacturers who need to meet the most stringent global requirements. CalEssence PCC products contain less than 125 parts per billion lead, one of the lowest lead levels available for food and drug grade calcium carbonates in the United States.

The available CalEssence PCC grades range in size from 0.7 to 4.5 microns and have a variety of particle shapes resulting in a range of physical properties such as surface area, tapped density and oil absorption. These present the formulator multiple tools to optimize product performance and sensory qualities in a wide variety of consumer products.

CalEssence PCC products are suitable for use in pharmaceuticals including calcium antacids, nutritional supplements, chewable and swallowed tablets, soft chews, lozenges, effervescent, vitamin/mineral premixes and gums. They are also utilized in food and beverage applications such as cereals, baked goods, nutrition and snack bars, dairy products, liquid meal supplements, and powdered drink mixes. The CalEssence PCC products feature a high calcium content and high bioavailability providing the ability to use lower loadings than other calcium sources, and making them an economical option to achieve desired calcium fortification.

CalEssence PCCs meet or exceed the requirements for Calcium Carbonate of the current United States Pharmacopeia. All CalEssence PCC family products are affirmed GRAS and also meet NF, FCC, and EU 170i purity standards, and are Kosher and Halal certified, Gluten Free, Organic, Natural, and Vegan. If the standard grades below are unable to meet your requirements, please contact us, as product customization is possible for specific needs.

Typical Physical Properties

	70	80	300	450
Particle Morphology	Prismatic	Prismatic/Cubic	Cubic	Cubic
Dry Brightness (Hunter Y, Rd Value)	98	98	95	95
Median Particle Size, d50 (Microns By Sedigraph)	0.7-0.9	0.8-0.95	2.5-3.5	4.0-4.5
Tap Density, lbs/ft ³	36	42	51	64
Tap Density, gr/cc	.58	.67	.82	1.03

Chemical & Common Typical Properties

Crystal Structure	Calcite
Calcium Carbonate	≥98%
Moisture	<0.5%
pH	8.5-9.5
Specific Gravity	2.7
Lead, ppb	<125
Arsenic, ppm	<1
Cadmium, ppb	<250
Mercury, ppb	<250

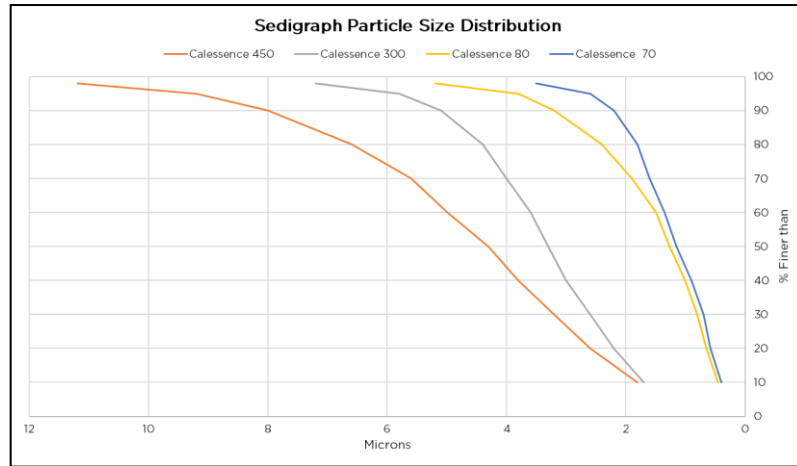
**Values listed are typical, not to be considered as specifications of the product



Specialty
MINERALS

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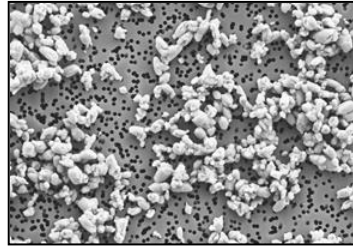


SHIPPING INFORMATION

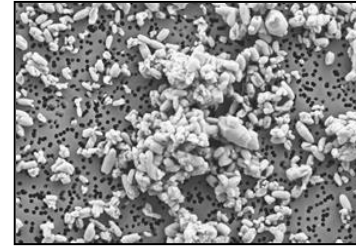
CalEssence products ship from Adams, MA

Product is available in 50 lb. bags, and supersacks.

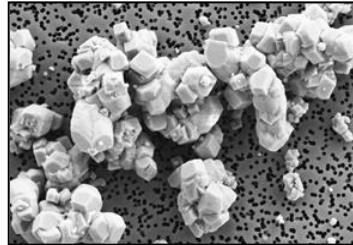
For availability and minimum order quantity, contact customer service.



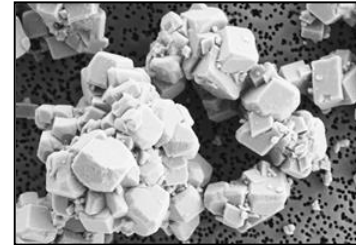
CalEssence® 70 PCC



CalEssence® 80 PCC



CalEssence® 300 PCC



CalEssence® 450 PCC

SALES OFFICES

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