

FEATURES

- ▶ Meets current United States Pharmacopeia standards
- ▶ Low lead, <500 ppb
- ▶ Applicable to Proposition 65 formulations
- ▶ Can be used in whitening applications
- ▶ Calorie-free, Carbohydrate-free, Fat-free, Non-dairy; Lactose-free
- ▶ High bioavailability
- ▶ Controlled particle morphology
- ▶ Economical

BENEFITS

- ▶ Can be an active ingredient or excipient in pharmaceutical applications
- ▶ Better Mouth Feel than ground carbonates
- ▶ Provides good suspension
- ▶ Shelf stability
- ▶ Highest calcium concentration
- ▶ Excellent source of calcium fortification
- ▶ Available globally

ViCALity®

USP/ FCC Precipitated Calcium Carbonates

Product Description

The products in the ViCALity® Precipitated Calcium Carbonate (PCC) family are high purity calcium carbonates that meet United States Pharmacopeia standards. ViCALity PCC products provide consistent high purity, especially in lead, cadmium, mercury and other heavy metals, and excellent performance in a wide range of applications that includes foods, pharmaceuticals, nutritionals, personal care, and medical rubber goods.

The ViCALity PCC family encompasses a wide range of particle sizes, from 0.7 micron up to 4.5 microns, and a variety of particle shapes or morphology, resulting in calcium carbonates with a broad spectrum of physical properties such as surface area, tapped density and oil absorption. This controlled particle size and morphology presents the formulator with the tools to optimize product performance and sensory qualities in a wide variety of consumer products.

In pharmaceuticals, ViCALity PCC products are useful as an active ingredient or excipient, providing 40% calcium content, the highest elemental calcium concentration of all calcium sources. In Food and Beverage, ViCALity PCC products provide an economical solution for calcium fortification, better mouth feel than ground calcium options, neutral organoleptic properties, good suspension and shelf stability.

In addition to USP certification, all ViCALity PCC family products 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

	ALBAFIL®	ALBAGLOS®	EXTRA LIGHT	LIGHT	MEDIUM	HEAVY	EXTRA HEAVY
Particle Morphology	Prismatic	Prismatic/Cubic	Scaleno-hedral	Scaleno-hedral	Scaleno-hedral	Cubic	Cubic
Dry Brightness (Hunter Y, Rd Value)	98	98	98	98	98	97	96
Median Particle Size, d50 (Microns By Sedigraph)	0.74	0.85	1.8	2.0	2.0	3.0	4.5
Oil Absorption, g/100g (ASTM D281)	32	29	77	76	56	30	34
Tap Density, lbs/ft ³	34	37	25	28	31	50	62
Tap Density, g/cc	0.55	0.6	0.4	0.45	0.5	0.8	1.0

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

Chemical & Common Properties

Crystal Structure	Calcite
Calcium Carbonate	≥98%
Moisture	<0.5%
pH	8.5-9.5
Specific Gravity	2.7
Lead, ppb	<500
Arsenic, ppm	<3
Cadmium, ppb	<250
Mercury, ppb	<250



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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)

SHIPPING INFORMATION

ViCALity PCC products ship from Adams, MA

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

For availability and minimum order quantity, contact customer service.

SALES OFFICES

Adams, MA
800-225-1156

Bethlehem, PA
800-801-1031

www.mineralstech.com

▶ **GCC**

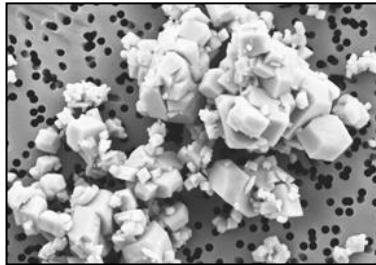
▶ **Talc**

▶ **Specialty PCC**

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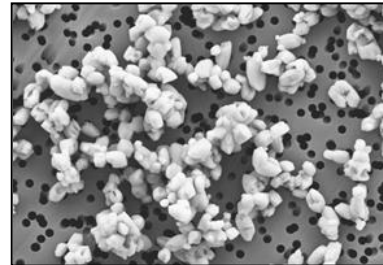
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USP/ FCC Precipitated Calcium Carbonates



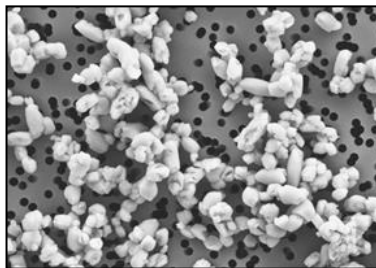
Cubic

- ViCALity® Heavy PCC*
- ViCALity® Extra Heavy PCC



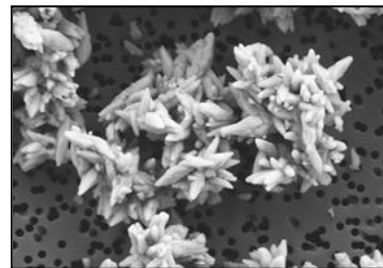
Prismatic

- ViCALity® ALBAFIL® PCC*



Prismatic/Cubic

- ViCALity® ALBAGLOS® PCC*



Scalenohedral

- ViCALity® Light PCC*
- ViCALity® Extra Light PCC
- ViCALity® Medium PCC

All products are sold or otherwise provided on the understanding that the Buyer or other user is solely responsible for determining their suitability for the intended use. All information provided is based upon our research, is typical of the products, and is believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. SMI MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OR USE OF THE PRODUCTS DESCRIBED HEREIN. Inconsistent terms and conditions contained in Buyer's purchase order shall not be binding on SMI/BMI unless reflected in writing signed by SMI/BMI's representative. This information is not to be copied, used in evidence, released for publication or public distribution without written permission from Specialty Minerals Inc./Barretts Minerals Inc.

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