



Calcium Carbonate

Product Information

Product Name	Calcium Carbonate
INCI Name	Calcium Carbonate
CAS Number	471-34-1
Synonyms	Limestone; Calcite; Aragonite; Chalk; Marble; Pearl
Chemical Classification	Inorganic salt
Functional Category	Oral care agent; Bulking agent; Abrasive; Opacifying agent; pH adjuster
IUPAC Name	CaCO ₃

Description

Calcium carbonate is a colorless, white powder, odorless. The density depends on crystalline form: Calcite ~2.71 g/cm³, Aragonite ~2.93 g/cm³, Vaterite ~2.83 g/cm³. Mohs hardness of 3. Decomposes into CaO and CO₂ at about 825 deg C. Slightly soluble in water (~0.0013 g/100 mL at 25 deg C).

Effects on Skin

Natural skin modifier. Provides smoothness, reduces greasy feel and stickiness. Absorbs sebum, controls moisture, gives matte appearance. Improves adhesion for face masks. Stimulates antioxidant production and shows protective effects on collagen and elastin.

Cosmetic Applications

Excellent exfoliant with absorbent properties. Used in bath products, makeup, personal hygiene, shaving products, and as bulking agent in deodorants. Typical concentrations: 2-5%. For external use only.

Production

Obtained in a reaction between calcium hydroxide and carbonic acid. Not tested on animals. Non-GMO. Vegan: Does not contain animal-derived components.