A new generation of mineral excipient
Functionalized Calcium Carbonate (FCC)

- Innovative functionalized excipient for pharmaceuticals
- High efficiency carrier for multiple substances
- Controlled-release properties

Discover the benefits of Omya’s functionalized Calcium Carbonate in your application.
Advantages

• High loading capability
• Controlled release vector
• Direct compressible
• Stabilization of API's
• Dissolution enhancement

Available case studies

• Compaction
• Drug loading
• Gastroretention
• Orally Dispersible Tablets

Particle size distribution (laser diffraction)

- Size ranges from 2.5 to 10 µm
- Highly porous nature
- Surface areas range from 30-70 m²g⁻¹

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(A) “Compaction of functionalized calcium carbonate, a porous and crystalline microparticulate material with a lamellar surface”
Tanja Stirnimann¹, Susanna Atria¹, Joachim Schoelkopf², Patrick A.C. Gane³, Rainer Alles¹, Jörg Huwyler¹

(B) “Functionalized Calcium Carbonate (FCC) as drug carrier. Evaluation of drug loading by solvent evaporation”
David Maid: University of Basel, Spring 2013, Department of Pharmaceutical Sciences. Advisors: Prof. Dr. Jörg Huwyler, Dr. Maxim Puchkov, Supervised by Daniel Preisig

(C) “Functionalized Calcium Carbonate as a Novel Pharmaceutical Excipient for Preparation of Gastroretentive Drug Delivery Systems”
Veronika A. Eberle¹, Nicola Di Maiuta², Daniel E. Gerard², Rainer Alles¹, Jörg Huwyler¹, Maxim Puchkov¹

(D) “Functionalized Calcium Carbonate as a Novel Pharmaceutical Excipient for the Preparation of Orally Dispersible Tablets”
Tanja Stirnimann¹, Nicola Di Maiuta², Daniel E. Gerard², Rainer Alles¹, Jörg Huwyler¹, Maxim Puchkov¹

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