



Omyanutra[®] 300 Flash

Ready for take-off with your
nutraceutical formulation?



THINKING OF TOMORROW

Omyanutra 300 Flash

The all-in-one solution for ODTs and FDTs

The world of nutraceutical tablet formulation is complex and many critical values have to be considered during development - like dissolution properties, shelf-life stability, or exposure to environmental challenges (oxygen, light, humidity and high or low temperatures).

The high number of active ingredients in nutraceuticals and the use of trending actives like herbal extracts, which are often only poorly compactable, transform tableting into a challenge. Additionally, formulators must select appropriate tablet processing aids – excipients – to optimize the compressibility and disintegration time of formulations. Omyanutra 300 Flash helps to facilitate this challenging process.

Traditionally, an excipient is blended together with a disintegrant before tableting, in order to ensure a fast disintegration of the tablet. With Omyanutra 300 Flash, this additional mixing step is no longer needed, since the excipient platform already contains the superdisintegrant croscarmellose sodium. Therefore the Flash-variant is ideally suited for tablet manufacturers looking for an all-in-one solution.

Omyanutra 300 Flash is based on functionalized calcium carbonate (FCC) and croscarmellose sodium. FCC is natural calcium carbonate that was changed to a new mineral composition and structure, through a recrystallization process. Omyanutra grades are free from nano-particles, non-GMO, and are made of high-purity minerals.

Benefits

- *Ultra-fast disintegration time*
- *Faster onset of the therapeutic effect*
- *Improved customer convenience*
- *Excellent compactability at low compression force*

Features

- *Free-flowing, direct compressible powder*
- *Porosity allows for carrying and release of actives*
- *Made from high-purity, natural mineral*
- *Non-nano, non-GMO material*

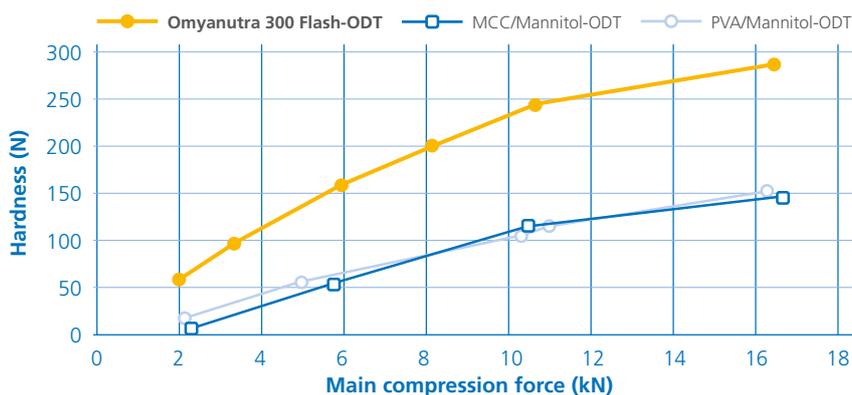


SEM image of Omyanutra 300 Flash



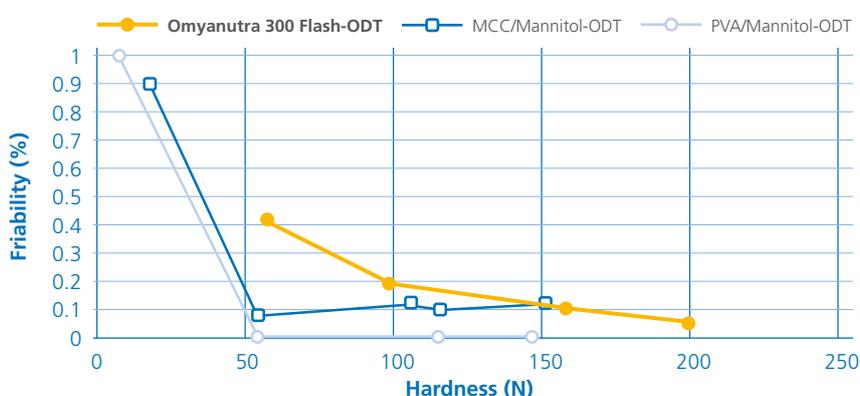
For different age groups, like children or seniors, swallowing a tablet is challenging or not possible. That's where convenient dosage forms like orally-disintegrating tablets (ODTs) and fast-dissolving tablets (FDTs) come into use.

Compactability

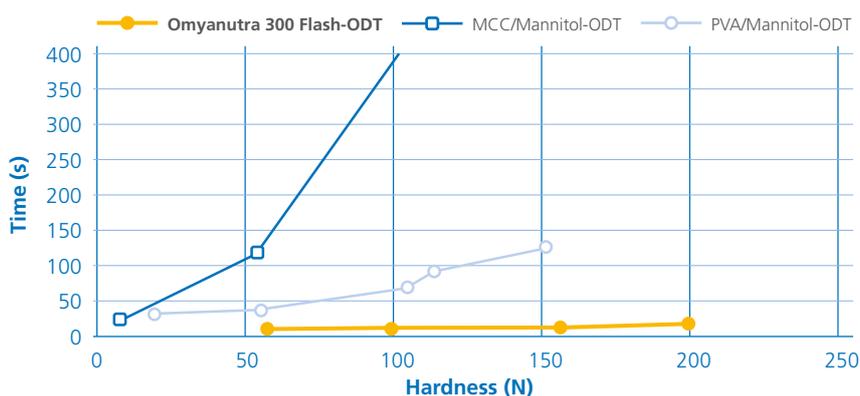


Hard tablets can be obtained at low compression forces. Omyanutra 300 Flash performs superior compactability than benchmarks lactose and MCC.

Friability compared to tablet hardness



Disintegration time compared to tablet hardness



Omyanutra 300 Flash outperforms the benchmark lactose and MCC in terms of fast disintegration, independent from tablet hardness. This allows to obtain very hard tablets with fastest disintegration.

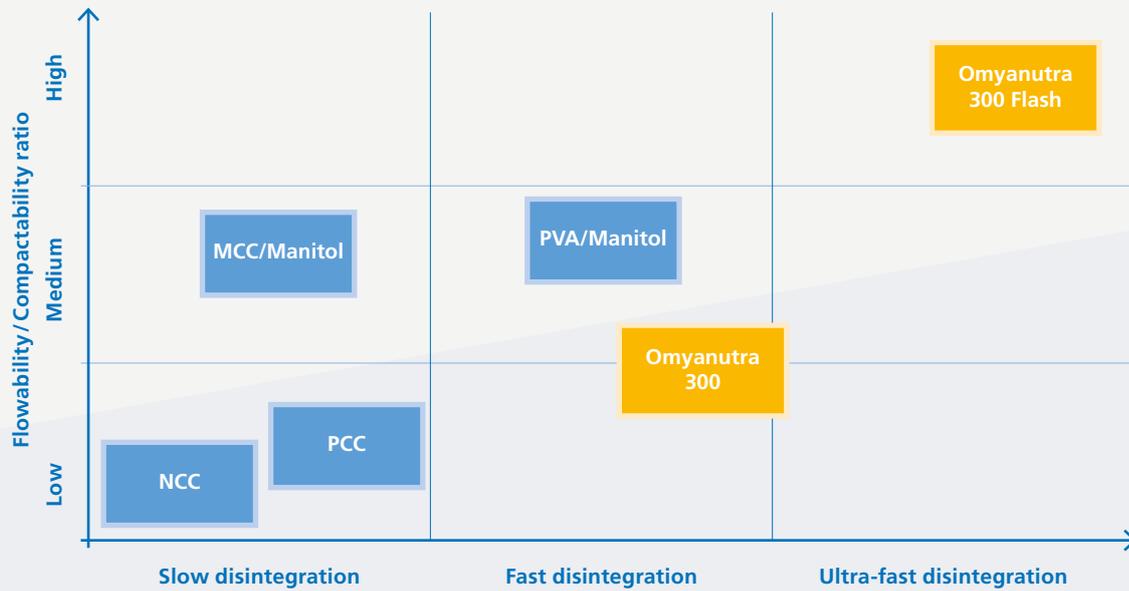
Omyanutra 300 Flash provides ultra-fast disintegration for ODTs and FDTs, regardless of the hardness of the solid dosage form.

Typical product data

Product	CCS* conc. (%)	Disintegration time (sec) 50-100N	d90 (µm)	d50 (µm)	Mean flow (s/100g)
Omyanutra 300 Flash	3	<15	160	90	45

* CCS = Croscarmellose sodium

Product Positioning



Omyanutra is a registered trademark of Omya AG in the European Union.

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