

Key benefits

SweetPearl™ P 300 DC maltitol gives crunchy chewable tablets with

- an attractive mouth texture, resulting in the combination of a sweet taste and crunchy texture
- flexibility in formulation, with this robust DC excipient
- reliability of a pharma supplier

Create pleasant crunchy chewable tablets with new SweetPearl™ P 300 DC

SweetPearl™ P 300 DC is a new granulated maltitol specifically designed for Direct Compression of crunchy chewable tablets.

SweetPearl™ P 300 DC is part of the Roquette Direct Compression polyols range, which includes sorbitol, mannitol, xylitol and other maltitol powders.

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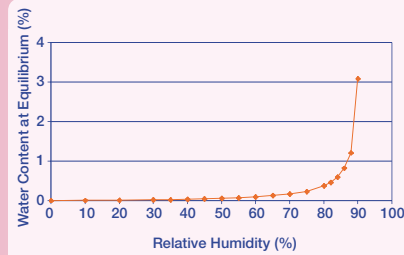


A DC granulated maltitol

Powder characteristics (indicative values)

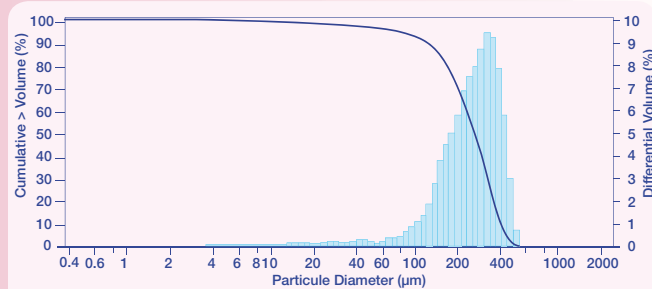
Aerated bulk density (g/ml)	0.60
Tapped bulk density (g/ml)	0.65
Compressibility (%)	8
Flowability funnel (time, s)	8
Angle of repose (°)	43

Very slightly hygroscopic powder Dynamic Vapor Sorption at 20°C



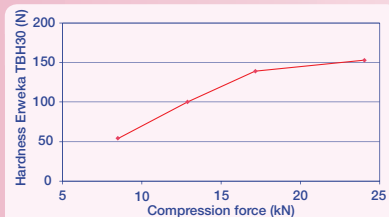
Particle size adapted to crunchy chewable tablets Beckman Coulter Laser Particle size analyser (indicative values)

D ₁₀ (µm)	130
Mean (µm)	300
D ₉₀ (µm)	410

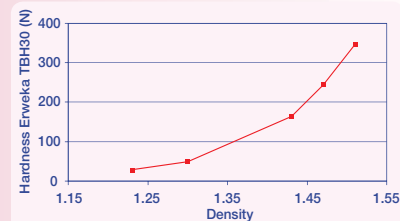


Excellent compactibility

Fette PI000 rotative press, biconvex tablets, 10mm diameter, 5 mm thickness, 1% Mg stearate



Frogerais Single Punch Press, biconvex tablets, 13mm diameter, 6mm thickness, 1% Mg Sterate



For sweet crunchy chewable tablets

For sweet tasting tablets

SweetPearl™ P 300 DC Maltitol has a sweetness equivalent to sucrose's one. It gives tablets a very nice sweet taste, especially suited to fruit flavors.

This excipient will be appreciated by sweet tooth and will find interest in paediatric formulations for example.

For crunchy tablets

SweetPearl™ P 300 DC Maltitol gives a crunchy texture to the chewable tablets, that disperse in the mouth.

Whether used alone or in combination with other polyols of Roquette portfolio, SweetPearl™ P 300 DC offers the formulator a full palette of textures.

Formulation example

PH214CT

Placebo crunchy chewable tablets with SweetPearl™ P 300 DC

	%	mg/tablet
SweetPearl™ P300 DC	91.1	1002.1
Colored SweetPearl™ P300 DC	5.0	55.0
Cherry powder flavour	1.6	17.6
Citric acid	0.4	4.4
Malic acid	0.4	4.4
Magnesium stearate	1.5	16.5

- ✓ Add the two acids and the powdered flavour to SweetPearl™ P300 DC and mix for 5 min.
- ✓ Add the lubricant and mix for 5 min.
- ✓ Compress on a FETTE P 1000 rotary press, at a 15 KN compression force, fitted with 16 mm diameter concave punches.

Tablet weight 1100 mg
Tablet hardness 130 N

Formulation benefits

SweetPearl™ P 300 DC Maltitol provides benefits for the formulator thanks to

- ✓ easy-to-use ingredient
- ✓ natural origin ingredient
- ✓ stability and compatibility
- ✓ formulation flexibility enabling creativity.

Nutrition benefits

SweetPearl™ P 300 DC Maltitol provides also benefits thanks to

- ✓ Sugar-free ingredient
- ✓ Low calorie ingredient
- ✓ Low glycaemic index

These nutrition benefits are valuable in nutraceutical applications.