

Key benefits

XYLISORB® DC gives smooth chewable tablets with

- an attractive mouthfeel resulting from the singular combination of its refreshing taste and smooth texture
- flexibility in formulation, with this robust DC ingredient
- reliability of a pharma supplier

XYLISORB® DC is part of the Roquette Direct Compression polyols range, which includes sorbitol, maltitol, mannitol and other xylitol powders.

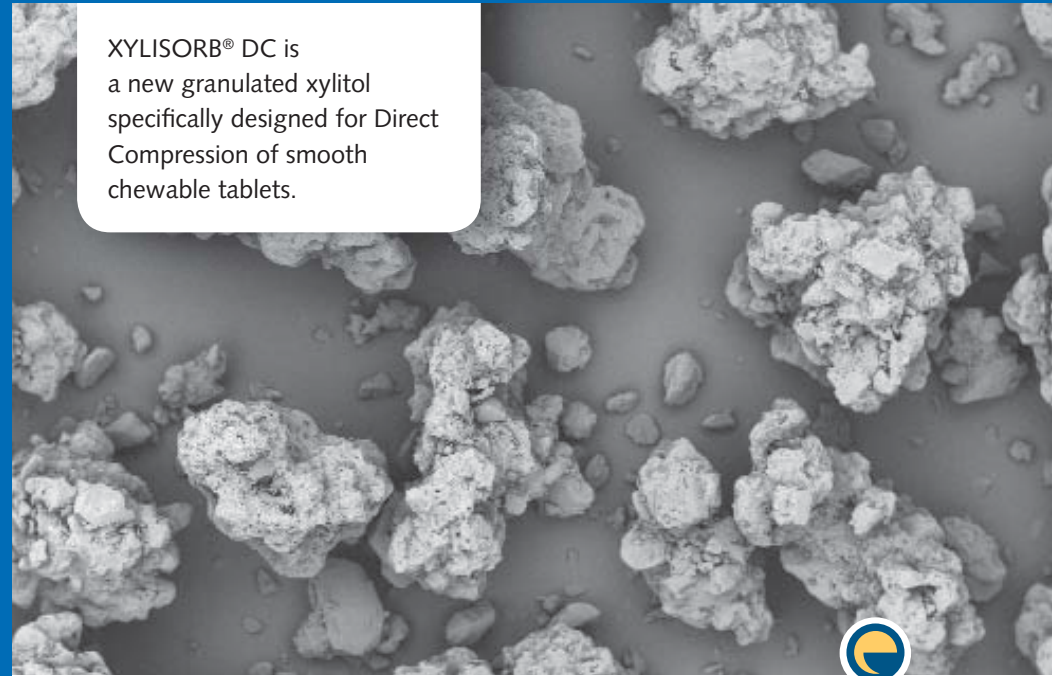
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Create pleasant smooth chewable tablets with new XYLISORB® DC

XYLISORB® DC is a new granulated xylitol specifically designed for Direct Compression of smooth chewable tablets.



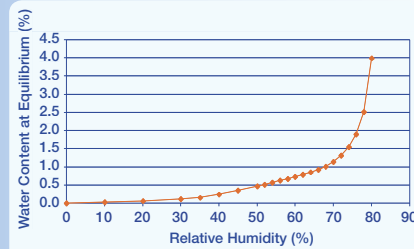
A DC granulated xylitol

For appealing smooth chewable tablets

Powder characteristics (indicative values)

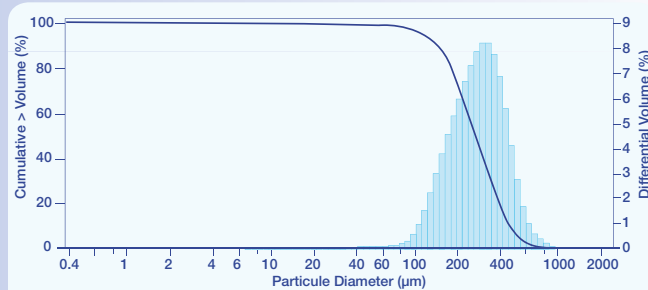
Aerated bulk density (g/ml)	0.71
Tapped bulk density (g/ml)	0.79
Compressibility (%)	10
Flowability funnel (time, s)	6
Angle of repose (°)	43

Slightly hygroscopic powder Dynamic Vapor Sorption at 20°C



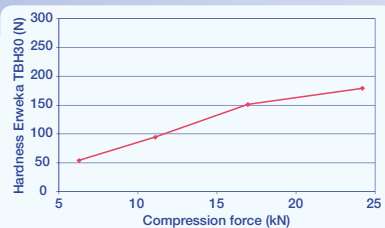
Particle size adapted to smooth chewable tablets Beckman Coulter Laser Particle size analyser (indicative values)

D ₁₀ (µm)	140
Mean (µm)	300
D ₉₀ (µm)	460

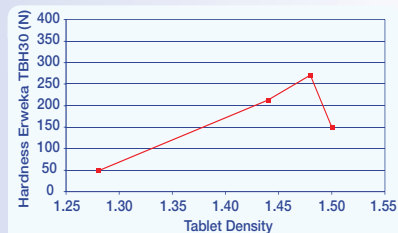


Excellent compactibility

Fette P1000 rotative press,
biconvex tablets, 10mm diameter,
5 mm thickness, 1% Mg stearate



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



Burst of freshness

XYLISORB® DC Xylitol freshness is a combination of its high solubility at mouth temperature and negative heat of dissolution. This intense refreshing effect combines well with cool flavors such as mint. Xylitol sweetness is equivalent to sucrose's one, which gives the tablet an astonishing sweet cool taste.

For smooth texture tablets

XYLISORB® DC Xylitol gives a very smooth texture to the chewable tablets, that almost melt in the mouth. Whether used alone or in combination with other polyols of Roquette portfolio, XYLISORB® DC offers the formulator a full palette of textures.

Formulation example

PH215CT

Placebo chewable tablets
with XYLISORB® DC XYLITOL

	%	mg/tablet
XYLISORB® DC Xylitol	98.43	357.67
Spearmint powder flavour	0.50	19.75
Yellow coloring agent	0.05	0.99
Blue coloring agent	0.02	6.32
Magnesium stearate	1.00	3.16

- ✓ Mix XYLISORB® DC Xylitol with the spearmint flavour for 5 min.
- ✓ Add the two colouring agents 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 1000 mg
Tablet hardness 120 N

Nutrition benefits

XYLISORB® DC Xylitol provides also benefits thanks to

- ✓ Sugar-free ingredient
 - ✓ Well established dental benefits
 - ✓ Low calorie ingredient
 - ✓ Low glycaemic index
- These nutrition benefits are valuable in nutraceutical applications.

Formulation benefits

XYLISORB® DC Xylitol provides benefits for the formulator thanks to

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