Product Name	PEARLITOL® 200 GT
Generic Name	Mannitol Directly Compressible
Physico-chemical pro	perties
Compliance	EP/USP-NF/JP/CHP
Synonyms	D-Mannitol
CAS Number	69-65-8
Chemical Structure	HO OH OH
Average Molecular Weight	182.2 g/mol
Physical Form or Appearence	White or almost white crystalline powder
Application	PEARLITOL® 200 GT mannitol is a direct compression excipient, specially designed to avoid capping, improve flowability and tabletability. It is a granulated form of mannitol with exceptional physical and chemical stability. It offers high API compatibility and no hygroscopicity. It is also a non-cariogenic and non-acidogenic sugar-free sweetener. It is suitable in formulations addressing all types of patient populations including pediatric and diabetic. It can be used in tablets (lozenges, swallowable tablets, orally dispersible tablets, chewable tablets, and effervescent tablets) and in powder blends (sachets, oral stick pack and hard gelatin capsules filling).
Water content (LOD)	Water Content (LOD) Maximum: 0.5 %
Morphology	Det HV Spot Mag WD Pressure 500.0µm— ETD 1.0 kV 3.0 100x 9.9 mm ROQUETTE - DAPF
Average mean	160 µm

particle diameter	
Particle Size Distribution by Laser Diffraction	dv10: 90 μm dv50: 150 μm dv90: 260 μm
Solubility	Freely soluble in water (1 part in 5.5 part of water at 20°C), sparingly soluble in 95% ethanol (1 part in 83), practically insoluble in ether
Melting temperature	Minimum melting temperature : 165 °C Maximum melting temperature: 170 °C
Water sorption isotherm at 20°C	Mater content at equilibrium (8 of water/1008 of wet substance) (8 of water/1008 of wet substance) (9 of water/1008 of wet substance) (9 of water/1008 of wet substance) (9 of water/1008 of wet substance) (10 of water/1008 of we
Taste/Odor	Slightly sweet and cooling effect.
Tablet hardness	250 200 150 150 -10 tabs/min -25 tabs/min -40 tabs/min -40 tabs/min
Experimental Conditions for Compression Behavior	Tablet Press: STYLONE EVO Production Speed: 10, 25 and 40 tablets/min (respective linear punch velocity: 38, 96 and 152 mm/s; respective simulated rotary press speed: 60000, 150000 and 240000 tablets/hour) Tooling: Diameter 10 mm R9 concave Formula: 98.8% PEARLITOL® 200 GT / 1.2% magnesium stearate Tablet Mass: 400 mg
Powder Characteristics	Powder Flowability (according to Ph.Eur. 2.9.16, 10mm outflow opening): 4s Bulk Density: 0.63 g/cm3

Tapped Density: 0.75 g/cm3 True Density: 1.514 g/cm3 Specific surface area: 1.3 m2/g Angle of Repose: 27 °

Disclaimer

These typical values are provided for information only and we believe them to be reliable. Methods available upon request.