

Oral Solid Dose

Milled Lactose[®]

Your proven, robust solution



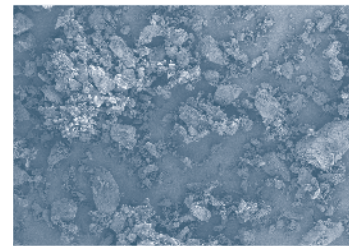
Pharmatose[®] and **Lactochem[®]** are DFE Pharma's brand names for pure white and highly consistent crystalline, milled lactose monohydrate grades. Lactose is mechanically milled to varying degrees of particle sizes allowing pharmaceutical companies to choose the grade best fitting their formulation needs. Due to its fine nature and relatively high surface area, milled lactose compacts well. This lactose type is typically used in tablets, capsules and extrusion spheronisation.

ASK AN EXPERT
dfepharma.com/productfinder



Milled lactose®

Benefits



Proven track record

A confident choice

- **100** years of experience
- Extensively researched in **500+** international, peer reviewed studies since 1990
- Studied with other DFE Pharma's functional excipients

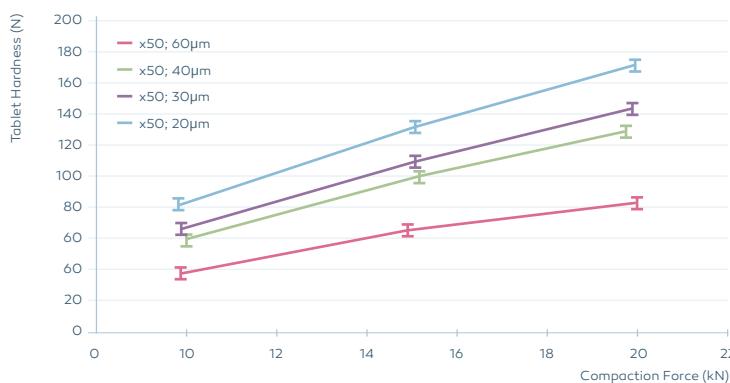
A global offering supplied from multiple production locations



A unique, wide portfolio supporting compaction

Find the milled lactose best fitting your formulation needs

DFE Pharma enables you to steer your granule hardness with different primary particle size. The smaller the primary particle size the higher the tablet hardness.



Milled grade	Typical value	
	Bulk Density (g/ml)	Median PSD (µm)
Pharmatose® 130M	0.70	80
Pharmatose® 150M	0.67	60
Pharmatose® 200M EU	0.59	40
Pharmatose® 200M NZ	0.56	30
Pharmatose® 350M EU	0.54	30
Pharmatose® 350M NZ	0.54	30
Pharmatose® 450M	0.50	20
Lactochem® Coarse powder	0.70	100
Lactochem® Regular powder	0.67	80
Lactochem® Powder	0.57	50
Lactochem® Fine powder	0.54	30
Lactochem® Extra fine powder	0.43	20
Lactochem® Super fine powder	0.42	15

Facts

Typical product data

Complies with Ph. Eur., USP-NF, JP, Kosher & Halal certified

Particle size distribution

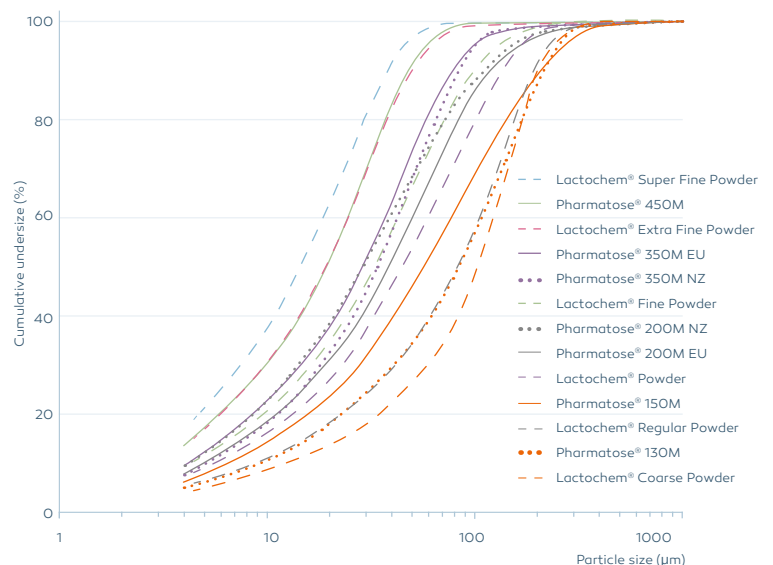
Method: dry laser diffraction

Laser diffraction

x10	3 µm - 15 µm
x50	15 µm - 105 µm
x90	40 µm - 220 µm

Packaging

	Bag	Big Bag	Drum
Capacity	25 kg	550 - 1000kg	50 kg
Shelf life	3 years	3 years	3 years



In pursuit of excipient excellence