

## Microcrystalline Cellulose

**Product name:** Microcrystalline Cellulose

**CAS NO.:** 9004-34-6

### Application

Microcrystalline cellulose is widely applied in pharmaceutical preparation as adhesive and diluent in oral tablet and capsule. It can be used for both wet granulation and direct compression. Besides as adhesive and diluent, Microcrystalline cellulose has the properties of certain lubrication and disintegrative.

Application	Types	Granularity (Remians) %	Loss on Drying %	Bulk Density g/cm <sup>3</sup>	Standard
Food grade	Contains various types like 101, 102 etc	/	≤7.0	/	GB 1886.103-2015
Pharma	Contains various types like 101, 102 etc	/	≤7.0	/	CP2015
Wet granulation	101	60 mesh ≤1 200 mesh ≤30	≤5.0	0.25-0.37	Food/CP/U SP/BP
Direct compression	102	60 mesh ≤8 200 mesh ≥45	≤5.0	0.25-0.37	
Super compressibility	105	60 mesh ≤0.1 400 mesh ≤1	≤5.0	0.20-0.30	
Low Moisture	103	60 mesh ≤1 200 mesh ≤30	≤3.0	0.25-0.37	
	112	60 mesh ≤8 200 mesh ≥45	≤1.5	0.30-0.36	
	113	60 mesh ≤1 200 mesh ≤30	≤1.5	0.27-0.37	
Super flowability	200	60 mesh ≥10 100 mesh ≥50	≤5.0	0.32-0.42	
High Density	301	60 mesh ≤1 200 mesh ≤30	≤5.0	0.38-0.45	
	302	60 mesh ≤8 200 mesh ≥45	≤5.0	0.38-0.45	

\*MCC 101, standard specifications, can be applied to all tabletting process production, especially suitable for wet granulation, rotary tablet and pill, has good compressibility

**\*MCC 102**, big particle size, suitable for direct compression with good flowability and compressibility

**\*MCC 105**, small particle size, mean particle size  $D_{50} \leq 15\mu m$ , helps to increase the tablet combination area, best compressibility, especially suitable for buccal tablets, chewable tablets

**\*MCC 103**, its particle size similar to that of MCC 101, but even lower moisture, 3.0% max, suitable for the water-sensitive medicine.

**\*MCC 112**, its quality similar to MCC 102, even lower moisture, 1.5% max, suitable for water-sensitive active ingredients, good flowability and compressibility

**\*MCC 113**, its particle size similar to that of MCC 101, even lower moisture than MCC 103, 1.5% max, recommend for using on water-sensitive medicine.

**\*MCC 200**, bigger particle size, suitable for direct compression on high-speed tablet pressers, excellent flowability, reduce the difference of tablet weight, improve the uniformity of content

**\*MCC 301**, its quality similar to that of MCC 101, high density, better flowability, good for compressing small dose tablet.

**\*MCC 302**, its quality similar to that of MCC 102, high density, better flowability, especially suitable for high-speed tableting and high density medicine.

**Package** .Inner package: Double PE bags , Outer package: paper bags or drum. Net wt: 25kgs