

Microcrystalline Cellulose

MCC is a white insoluble, neutral, non-reactive free flowing versatile excipient. Its physical, chemical & rheological properties dictate its performance in a broad range of applications in the food, pharmaceutical, cosmetic, and other industries. To serve these diverse industries, the polymer is available in several grades which varies in their average particle size (15 Microns to 250 Microns), Moisture content and bulk density. Microcrystalline Cellulose is offered in spray dried directly compressible forms under the brand name **HiCel™** and non-spray dried under the brand name **AceCel®**

Sl.no	Grades	Description	Main Application
1.	HiCel™ 25M	Finest particle (25 µm) MCC	Very fine grade MCC, gives a pleasant mouth feel, masks bitter taste and supports flavors and used also for tablet coating.
2.	HiCel™ 50M	Standard MCC with fine	Fine Standard MCC grade, especially suited for wet granulation, roller compaction and spheronisation. Very high compatibility.
3.	HiCel™ HD50M	High Bulk Density MCC with 50µm particle size	Higher bulk density grade of MCC & with improved flow properties and higher compressibility
4.	HiCel™ 90M	Standard MCC with median Particle size (90µm)	Medium size standard MCC grade suited for majority of the direct compressible actives. Combined good flow and high compatibility.
5.	HiCel™ HD90M	High Bulk Density MCC with 90µm particle size	Higher bulk density & improved flow properties. Especially suited for high speed tableting and processing high density actives.
6.	HiCel™ 12	Microcrystalline cellulose with 160 µm	Coarse grade MCC combines good compatibility and & binding capacity with outstanding flow, provides good content uniformity at low weight variation even when used with low concentration of fine actives.
7.	HiCel™ LP200	MCC 200 with 200 µm particle size	Coarse grade MCC, combines good compatibility & high binding capacity with outstanding flow. Provides good content uniformity at low weight variation even when used with low concentration of fine actives.
8.	HiCel™ 90M SCG	Coarser MCC	Coarser grade of MCC has been specially developed for high density with fine particles API's.
9.	HiCel™ LM 50	Low moisture content MCC with 50 µm particle size	Low moisture content (<3.0%) MCC grade for water sensitive API's with higher compressibility and flowability.
10.	HiCel™ XLM 50	Extra Low moisture content with 50 µm particle size	Extra low moisture content (<1.5%) for processing water sensitive API's with higher flowability.
11.	HiCel™ XLM 90	Extra Low moisture content with 90 µm particle size	Median particle size, standard MCC with extra low moisture (<1.5%) for processing moisture sensitive actives and suited for direct compression.
12.	HiCel™ LM 90	Low moisture content with 90 µm particle size	Median particle size, standard MCC with low moisture (<3.0%) for processing moisture sensitive actives and suited for direct compression.
13.	HiCel™ 14	Extra Low moisture content with 160 µm particle size	Extra low moisture (< 1.5%) Coarse grade MCC for water sensitive API's combines good compatibility and & binding capacity with outstanding flow, provides good content uniformity at low weight variation even when used with low concentration of fine actives
14.	HiCel™ XLM 200	Extra Low moisture content with 200 µm particle size	Extra low moisture (< 1.5%) Coarser grade MCC for water sensitive API's combines good compatibility and & binding capacity with outstanding flow, provides good content uniformity at low weight variation even when used with low concentration of fine actives.
15.	AceCel® 101	Standard MCC with fine Particle size (50 µm)	Fine Standard MCC grade, especially suited for wet granulation, roller compaction & spheronisation.
16.	AceCel® 102	Standard MCC with median Particle size (90µm)	Medium particle size, standard MCC grade suited for majority of the direct compressible actives.
17.	AceCel® 103	Low moisture with fine particles	Fine standard MCC with low moisture content (<3.0%) for processing water sensitive actives. Used for roller compaction.
18.	AceCel® 105	Finest particle (25 µm) MCC	Very fine grade MCC, gives a pleasant mouth feel, masks bitter tastes, and supports flavors and used also for tablet coating.
19.	AceCel® 112	Extra Low moisture MCC with median particle	Median particle size, standard MCC with extra low moisture (<1.5%) for processing moisture sensitive actives and suited for direct compression.
20.	AceCel® 113	Extra Low moisture content with fine particle	Fine standard MCC grade with extra low moisture (<1.5%) for processing moisture sensitive actives and suited for roller compaction.
21.	AceCel® 200	Coarser particle (200µm) MCC	Coarse grade MCC, combines good compatibility & high binding capacity with outstanding flow. Provides good content uniformity at low weight variation even when used with low concentration of fine actives.
22.	AceCel® 301	High bulk density with fine particle (50µm)	Fine particles with higher Bulk density & improved flow properties and suitable for roller compaction and direct compression.
23.	AceCel® 302	High bulk density with median particle	Higher bulk density & improved flow properties. Especially suited for high speed tableting and processing high density actives.
24.	AceCel® 12	Coarse particle (160µm)	This grade MCC, combines good compatibility & high binding capacity with outstanding flow, provides good content uniformity at low weight variation suitable for fine API's.
25.	AceCel® LD 1000	Super Fine particle (45µ) with low bulk density	This grade of MCC combines higher compatibility. Suitable for coarser API, give higher compressibility. Widely used in Nutraceutical products which is having coarser particle.
26.	AceCel® SG 1030	Food Grade	Used in various food applications to improve finished product quality. It can absorb oil while remaining a flowing powder, making it an ideal choice for use in various processed food.

High Functionality Excipient

Sl.no	Grades	Description	Main Application
27.	HiCel™ MCG 501	MCC + CMC	Gelling agent for "ready to use" applications prepared with high shear forces.
28.	HiCel™ MCG 581	MCC + CMC	High functionally gelling agent for all type of suspensions and emulsion
29.	HiCel™ MCG 591	MCC + CMC	High functionally gelling agent for all type of suspensions and emulsions.
30.	HiCel™ MCG 611	MCC + CMC	Gelling agent for recostituable dry suspension requires low shear forces
31.	HiCel™ SMCC 50M	MCC + Silicon Dioxide	Formulas in which optimal compaction and decent flow are required. Superior Physico-mechanical properties that may be of advantage in hard gelatin capsule formulations.
32.	HiCel™ SMCC 90M	MCC + Silicon Dioxide	Formulas in which a balance of flow and compaction are required. Superior Physico-mechanical properties that may be of advantage in hard gelatin capsule formulations.
33.	HiCel™ SMCC LM 90	MCC + Silicon Dioxide	It is low moisture content (3.0%) grade and recommended for extremely moisture sensitive active ingredients.
34.	HiCel™ SMCC	HD 90MCC + Silicon Dioxide	This is higher density grade of SMCC, it has excellent flowability and facilitates thinner tablets. This grade gives the best disintegration time. Superior Physico-mechanical properties that may be of advantage in hard gelatin capsule formulations
35.	HiCel™ SMCC	SCG 90MCC + Silicon Dioxide	This grade has been specially developed for high density with fine particles API's, it improves compressibility and flowability of the poor flowable API's.
36.	HiCel™ HFS 90M	MCC + Mannitol+ Silicon Dioxide	Addition of Mannitol and Silicon dioxide in the MCC in co-processed increased flowability compatibility of the powder
37.	HiCel™ HFS 50 M	MCC + Mannitol+ Silicon Dioxide	Addition of Mannitol and Silicon dioxide in the MCC in co-processed increased flowability compatibility of the powder
38.	*HiCel™ HFE 90M	MCC + Mannitol	Addition of Mannitol in the MCC in co-processed increased flowability compatibility of the powder
39.	*HiCel™ DG	MCC + DCP	Superior compatibility and robustness with low bulk density.
40.	HiCel™ Lac 80	MCC + Lactose Monohydrate	Good compatibility, flowability, Hardness and uniformity of Dosage.
41.	HiCel™ Lac 100	MCC + Lactose Monohydrate	Good compatibility, flowability, Hardness and uniformity of Dosage.
42.	HiCel™ CE 15	MCC + Guar gum	Provide a superior s creamier mouth feel and reduce friability.
43.	BARETab® Lub 90M	Binder+ Lubricant	Good compatibility, flowability and no need additional lubricant
44.	BARETab® Lub LM 90	Binder+ Lubricant	This grade has lower moisture content (<3.0%) and recommended for extremely moisture sensitive active ingredient.
45.	BARETab® Lub 50M	Binder+ Lubricant	Formulas where a balance of flow and compaction is required. No need additional lubricant Multifunctionality Excipient

Multifunctionality Excipients

46.	BARETab® PH	Binder+ Glidant+ Disintegrant+ Lubricant	Ready to use premix for DC tablet formulation, having outstanding flow and compressibility and maintained drug uniformity throughout the batch.
47.	BARETab® LMPH	Binder+ Glidant+ Disintegrant+ Lubricant	It is low moisture content (<3.0%) and recommended for extremely moisture sensitive active ingredient.
48.	BARETab® Nutra 90M	Binder+ Glidant+ Disintegrant+ Lubricant	Ready to use premix for DC tablet formulation, having outstanding flow and compressibility for pharma, food and nutraceutical formulation.
49.	BARETab® Nutra LM90	Binder+ Glidant+ Disintegrant+ Lubricant	It is low moisture content (<3.0%) and recommended for extremely moisture sensitive active ingredient.
50.	BARETab® Nutra 50M	Binder+ Glidant+ Disintegrant+ Lubricant	It has higher compressibility and suitable for granular API's.
51.	BARETab® ODT 90M	Binder+ Disintegrant+ Sweetener	For Quick dissolving tablet matrix, Superior, flow and compressibility. Formulas in which a balance of flow and compaction is required.
52.	BARETab® ODT 50M	Binder+ Disintegrant+ Sweetener	For Quick dissolving tablet matrix, superior flow, and compressibility. Formulas in which optimal compaction and decent flow is required.
53.	BARETab® Nutra DS 90M	MCC+ Dicalcium Phosphate anhydrous + Croscarmellose Sodium	Superior flowability and compressibility for tablet
54.	BARETab® Nutra DS 50M	MCC+ Dicalcium Phosphate anhydrous + Croscarmellose Sodium	Superior flowability and compressibility for tablet for coarser API.
55.	BARETab® Nutra DS LM 90	MCC+ Dicalcium Phosphate anhydrous + Croscarmellose Sodium	Superior flowability and compressibility for water sensitive API.
56.	BARETab® Flash CS 90M	Binder+ Super disintegrant	It has superior flowability and compressibility with lesser disintegration time.
57.	BARETab® Flash CS 50M	Binder+ super disintegrant	It has superior flowability and compressibility with lesser disintegration time, suitable for coarser API.
58.	BARETab® Flash CS LM90	Binder+ super disintegrant	It has superior flowability and compressibility with lesser disintegration time, and suitable for water sensitive API's.
59.	BARETab® Flash SG 90M	Binder+ disintegrant	It has superior flowability and compressibility with lesser disintegration time.
60.	BARETab® Flash SG 50M	Binder+ disintegrant	It has superior flowability and compressibility with lesser disintegration time, suitable for coarser API.
61.	BARETab® Flash SG LM90	Binder+ disintegrant	It has superior flowability and compressibility with lesser disintegration time, and suitable for water sensitive API's.

*Products, Grades under patent would not be supplied to patent active region.

Packing: The standard packing is 20kg preprinted paper bag with double polythene liner.

Pallet: 25 paper bags (500kg) on plastic pallet (1100x1100mm).

Sample Size: 100g or 200 g in LDPE Bag with aluminum foil.