



Avicel®

## The renowned binder for tablets

Avicel® microcrystalline cellulose (MCC) is a purified, partially depolymerized alphacellulose excipient made by acid hydrolysis of specialty wood pulp.

For nearly 60 years, Avicel® has exceeded the performance of common pill binders by pushing the boundaries of science in tablet binding, leading to a premier product supported by true experts in the field. Today, Avicel® is produced in state of the art, GMP qualified facilities located in the US and Europe with rigid quality control and robust, flexible supply chains.

### Multiple functionalities in one product

Avicel® PH MCC is most often used in tableting as a compression aid, flow aid, and filler for directly compressed tablets. Avicel® PH is an ideal wet granulation binder which rapidly produces robust granules that remain stable in high shear environments, enabling broad processing windows and maximizing batch to batch reproducibility.

With the development of differentiated grades, Avicel® PH remains an indispensable pharmaceutical formulation tool, with versatile functionality:

- Improved powder flow
- Broad wet granulation processing windows
- Optimum granule properties
- Ideal tablet compactibility
- Uniform tablet content
- Increased batch size
- Reduced moisture related API degradation

## Product Recommendations\*

Available Grades	Particle Size, $\mu\text{m}$	Moisture, %	Differentiating Features
Avicel® PH-101	50	3.0 to 5.0	Premier Binder
Avicel® PH-102	100	3.0 to 5.0	
Avicel® PH-105	20	NMT 5.0	Superior Compactibility
Avicel® PH-102 SCG	150	3.0 to 5.0	Superior Flow
Avicel® PH-200	180	2.0 to 5.0	
Avicel® PH-301	50	3.0 to 5.0	High Density
Avicel® PH-302	100	3.0 to 5.0	
Avicel® PH-103	50	NMT 3	Low Moisture
Avicel® PH-113	50	NMT 2	
Avicel® PH-112	100	NMT 1.5	
Avicel® PH-200 LM	180	NMT 1.5	

\*Examples only and not representative of a complete list of recommended products or benefits.

## Key Applications

- Direct Compression Tableting
- Granulation
- Extrusion and Spheronization

The application possibilities are endless. We want to help you be successful in whatever application you are considering, so please contact us if you need more assistance. Our experts are eager to tackle your challenges.

Did you know that with the development of differentiated grades, Avicel® remains an indispensable formulation tool, boosting productivity and meeting tough formulation challenges. This short video summarizes the value proposition of our Avicel® - A versatile excipient addressing your critical formulation needs.



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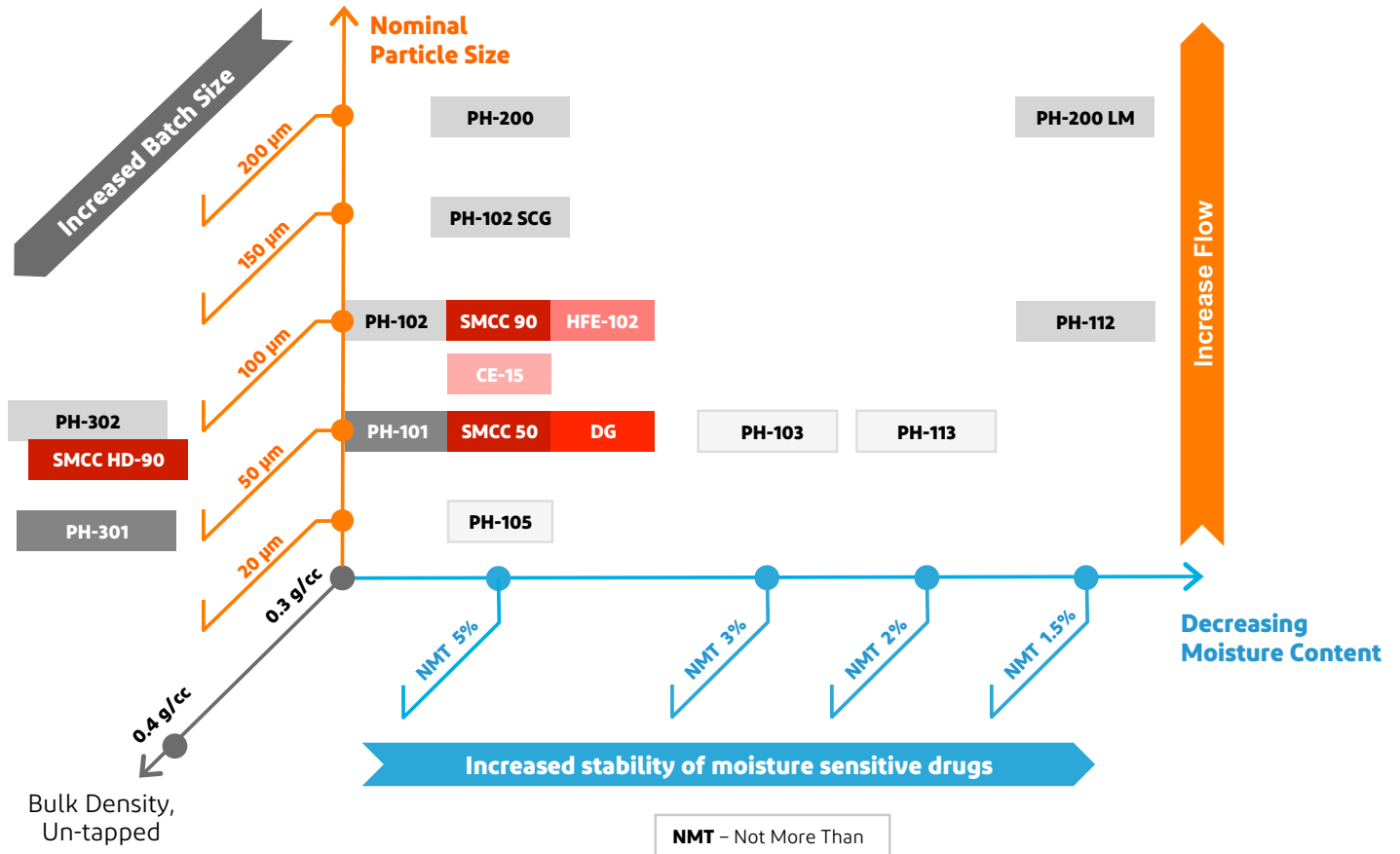
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Pharma Solutions

# Avicel® Selection Guide

A versatile excipient addressing your critical formulation needs.

Functionalities tailored to requirements of dosage form, formulation and technology



**Avicel® MCC**

	Direct Compression
	Wet Granulation

**Co-processed Avicel®**

	MCC + SiO <sub>2</sub>
	MCC + DCP
	MCC + Mannitol
	MCC + Guar Gum

# Avicel® Product Guide

		Avicel® MCC										Avicel® Co-processed MCC					
		PH-101	PH-102	PH-102 SCG	PH-103	PH-105	PH-112	PH-113	PH-200	PH-200 LM	PH-301	PH-302	CE	DG	HFE	RC/CL	SMCC
Dosage Forms	Tablets	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Capsules (fillers)		●	●			●		●	●		●					●
	Chewables												●				
	Suspensions															●	
By Technology	Continuous mfg.	●	●	●					●					●			●
	Direct compression		●	●			●		●	●		●		●	●	●	●
	Roller compaction	●			●			●						●			●
	Wet granulation	●									●						●
By Formulation Challenge	Compactibility					●								●			●
	API content uniformity																●
	Lubrication tolerance												●	●			●
	Flowability		●	●					●			●		●			●
	Productivity/ batch size										●	●					●
	Moisture sensitivity				●		●	●		●							

## Market Trends and Needs

- Use of direct compression, high-speed tableting machines
- Implementation of continuous manufacturing
- Need for safe and reliable drug performance
- Formulation flexibility e.g. immediate, controlled, delayed release
- Increasing demand on excipient's functionality
- Reliable and simplified supply chain set ups
- Particle engineering and co-processing are attractive tools to meet market needs

With the development of differentiated grades, Avicel® remains an indispensable formulation tool, boosting productivity and meeting tough formulation challenges. Contact DuPont for assistance with choosing the optimal Avicel® grade or for help with your tableting formulation issues.



## Nutrition & Biosciences

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