



# Avicel® PH-105 microcrystalline cellulose, NF, Ph. Eur., JP

## Product Specifications:

### Chemical and Physical:

Loss on drying	NMT 5.0 %*
Bulk density, loose	0.20 - 0.30 g/cc
Degree of polymerization	NMT 350 units
NF and Ph.Eur - tests A,B; JP - tests 1,2,3	Passes
pH	5.5 - 7.0*
Conductivity	NMT 75 µS/cm
Residue on ignition	NMT 0.05 %
Water soluble substances	NMT 12.5 mg/5g
Water soluble substances	NMT 0.25 %
Heavy metals	NMT 0.001 %
Solubility in copper tetrammine hydroxide	Soluble
Ether soluble substances	NMT 5.0 mg/10g

### Microbiological:

Total aerobic microbial count	NMT 100 CFU per gram*
Total yeast and mold count	NMT 20 CFU pr gram*
Pseudomonas aeruginosa	Absent in a 10g sample
Escherichia coli	Absent in a 10g sample
Staphylococcus aureus	Absent in a 10g sample
Salmonella species	Absent in a 10g sample
Coliform species	Absent in a 10g sample

### Additional FMC Specifications

Air Jet particle size, wt. % + 60 mesh ~ (250 microns)	NMT 0.1		
Air Jet particle size, wt. % + 400 mesh ~ (38 microns)	NMT 1		
Particle size distribution	D10	D50	D90
	2-10	10-30	20-60

This product meets the requirements for Residual Solvents in the United States Pharmacopeia <467> Method IV.

\*More restrictive than compendium  
NMT = Not More Than  
NLT = Not Less Than



**Product Shelf-life / Re-evaluation Date**

Store at ambient conditions. Keep containers sealed; material is very hygroscopic. 4 years from date of manufacture, if storage conditions stated above are observed. DuPont recommends that after the above re-evaluation date, the customer performs the loss on drying. Typical Degree Polymerization range for Avicel PH microcrystalline cellulose is 100 to 300.

Safety Data Sheets (SDS) available on request.

**Patents**

DuPont or its affiliates is owner and/or licensee of several patents related to its products. The products, processes and uses of such products referred to in this document may be covered by one or more patents or pending applications in the United States and/or other countries. DuPont does not warrant against any infringement claim arising from the sale and/or use of any DuPont product in combination with other materials; the use of any DuPont product in the operation of any process; any DuPont product manufactured to a customer's designs or specifications; or any DuPont product manufactured by any process requested by a purchaser.

**Product Suitability**

The information contained in this document (as well as any advice or assistance) is provided by DuPont only as a courtesy and is intended to be general in nature. Any uses suggested by DuPont are presented only to assist our customers in exploring possible applications. DuPont make no warranty, express or implied, as to its accuracy or completeness, or the results to be obtained from such information, advice or assistance. Each customer is solely responsible for determining whether the DuPont products are suitable for such customer's intended use, and for obtaining any necessary governmental registrations and approvals for such customer's production, marketing, sale, use and/or transportation of finished goods using or incorporating the DuPont products.