



Avicel Ph Microcrystalline Cellulose PH102 For Diluent In Tablets And Capsules

Our Product Introduction

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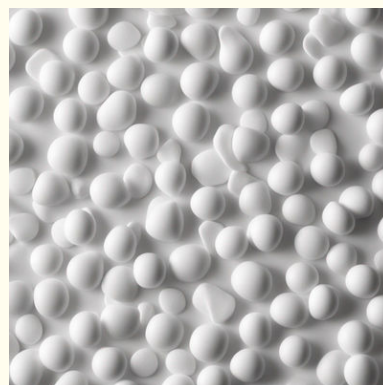
Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC
- Model Number: HBY-microcrystalline cellulose PH102
- Minimum Order Quantity: 1kg
- Price: Negotiable
- Packaging Details: Woven bag outside, lined with high pressure polyethylene film bag, 20kg/bag, also can be packed according to customer's agreement.
- Delivery Time: 3~5 days, upon receipt of payment
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 3000 Kilograms

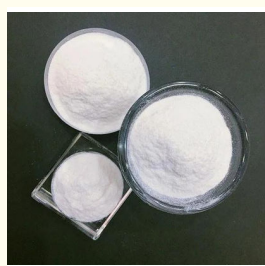
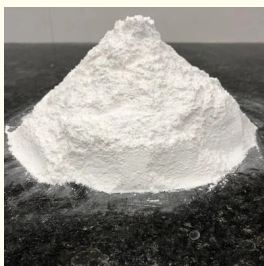


Product Specification

- Product Name: Microcrystalline Cellulose PH102
- CAS: 9004-34-6
- Chemical Name: Cellulose
- Appearance: White Or Off-white Powder Or Granular Powder
- Other Names: Avicel PH; Cellex; Cellulose-gel; Celphere; Ceolus-KG; Crystalline-cellulose; E460; Emcocel; Ethispheres; Fibrocel; Pharmacel; Tabulose; Vivapur.
- Mf: $(C_6H_{10}O_5)_n$ $n \approx 220$
- MW: ≈ 36000
- Applications: Absorbent; Suspending Aid; Diluent For Tablets And Capsules.
- Highlight: **Avicel Ph Microcrystalline Cellulose, PH102 For Diluent In Tablets, PH102 For Diluent In Capsules**



More Images

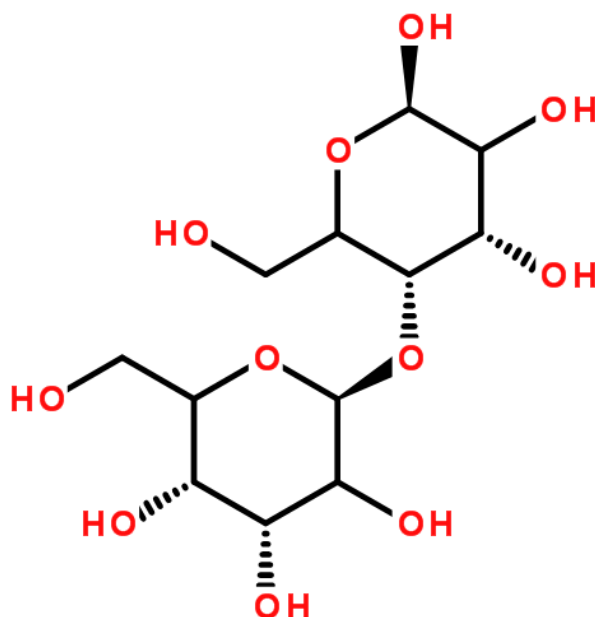


Product Description

Product name: microcrystalline cellulose PH102

Cas NO.: 9004-34-6

Chemical Formula:



Microcrystalline cellulose is commonly used as an adsorbent, suspending agent, diluent, and disintegrating agent. Microcrystalline cellulose is widely used in pharmaceutical preparations, mainly in oral tablets and capsules as a diluent and binder, not only can be used for wet granulation but can also be used for dry direct compression of tablets.

It also has certain lubricating and disintegrating effects, which are very useful in tablet preparation.

Due to the existence of hydrogen bonds between the molecules of microcrystalline cellulose, hydrogen bonding under pressure, so it has a high degree of compressibility, often used as a binder; pressed tablets encountered in the liquid, the water quickly into the tablets containing microcrystalline cellulose, hydrogen bonding instantly broken, so it can be used as a disintegrating agent. Therefore, it is a widely used excipient in the production of tablets, which can improve the hardness of tablets.

Grade	Particle Size(μm)	Moisture Content(%)	Applications
AVICEL PH-101	50	3.0 - 5.0	Conventional grade for wet and dry granulation
AVICEL PH-102	100	3.0 - 5.0	Improves flow in direct compression, dry phase of wet granulation and dry granulation
AVICEL PH-103	50	NMT 3.0	Well suited for moisture sensitive actives
AVICEL PH-105	20	NMT 5.0	Extra-fine particle size, used for direct compression of materials which are coarse or hard to compress
AVICEL PH-112	100	NMT 1.5	Lowest moisture content and is best suited for direct compression of moisture sensitive actives
AVICEL PH-113	50	NMT 2.0	Improves product stability, particularly of formulations using moisture sensitive actives
AVICEL PH-200	200	2.0 - 5.0	Largest particle size, enhances flow in direct compression and dry granulation whilst maintaining high levels of compressibility with minimum weight variation and content uniformity
AVICEL PH-200 LM	200	NMT 1.5	Largest particle size with lowest moisture content, allowing for better flow rate than Avicel PH-112. Improved grade direct compression of moisture sensitive actives
AVICEL PH-301	50	3.0 - 5.0	High bulk density grade, for manufacturing of small tablets. Reduces powder stratification and tablet weight variation allowing efficient mixing
AVICEL PH-302	100	3.0 - 5.0	High bulk density grade with larger particle size, used for production of thin tablets especially in high dose drug formulations. Avoids powder segregation and achieves good flow rates

Quality standard:

Testing item	Testing requirement
appearance	white or almost white powder, odorless, tasteless
identification	meet the specification
degree of polymerization	≤350
fineness, %	60 mesh residue on sieve≤8; 200 mesh residue on sieve≥45
grain size D50, μm	70-100
PH	5.0~7.5
chloride, %	≤0.03
water-soluble, %	≤0.25
specific conductance, us/cm	≤75
residue on ignition, %	≤0.10
loss on drying, %	≤7.0
ether dissolved substance, %	≤0.05
heavy metal, ppm	≤10

microbial limit		
bacteria,cfu/g	≤1000	
mould,cfu/g	≤100	
pathogenic bacterium	not detectable	

One Product for Many Functions

PH MCC 102 is commonly used as a tableting aid, flow aid, and filler for direct compression tablets. PH 102 is an ideal wet granulation binder for robust granules that remain stable in high-shear environments, enabling a wide processing window and maximizing batch-to-batch reproducibility.

Multiple functions:

Improved powder flow
Wide wet granulation processing window
Optimal particle characterization
Ideal tablet densification
Uniform tablet content
Larger batch sizes
Reduced moisture-related API degradation

Main applications

Direct tableting
Granulation
Extrusion and spheronization



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