Pharmaceutical raw material

Microcrystalline cellulose (MCC)

Excipients for tablets and semi-solids

CAS 9004-34-6



Material illustration

Substance identity

A cellulosic polymer. Chain length and particle distribution vary with grade. Particle size and bulk density therefore help distinguish commercial materials.

Property	Reference value	Method or source
CAS number	**9004-34-6**	USP–NF
Repeat unit	**$(C_6H_{10}O_5)_n$**	USP–NF
Material type	**Purified, partially depolymerized cellulose**	USP–NF

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.



Applications

A tablet diluent and dry binder. It helps particles form a strong compact under pressure. Particle size and bulk density influence how the blend feeds and fills the die.



Purchasing criteria

Identify direct compression or granulation and specify the particle-size range, moisture and bulk density. When qualifying an alternative, provide the ranges within which your line operates consistently.

Technical reference

USP–NF