



Microcel MC-12

Microcrystalline Cellulose, NF/EP

Microcel MC-12 is a grade of MCC with an intermediate particle size between the types Microcel MC-102 and Microcel MC-200, with excellent flowability and compressibility properties. Its main uses are enhance the flowability in direct compression formulations that uses API with low flow, reduce tablets and capsules weight variation, mostly in semiautomatic (disk type) or gravity capsule filler machines. Recommended usage levels are between 10 – 90%.

Product Specifications

Chemical & Physical Properties

Appearance	White, non fibrous powder
Odor	Odorless
Identification A	Positive
Identification B (Degree of Polymerization)	NMT 350
Loss on drying (as shipped)	NMT 7.0 %
pH	5.0 to 7.0
Water soluble substances	NMT 0.24 %
Ether soluble substances	NMT 0.05 %
Residue on ignition	NMT 0.05 %
Heavy metals	NMT 10 ppm
Conductivity	NMT 75 uS
Solubility in Copper Tetrammine Solution	Positive
Retained on 60 Mesh (250 Microns)	NLT 10.0 %
Retained on 100 Mesh (150 Microns)	NLT 40.0 %
Bulk density	0.30-0.40 g/cm ³
Solubility Information:	
Dilute Alkali	Partially soluble
Dilute Acid and Organic Solvents	Insoluble
Water	Insoluble, Dispersible

This product meets the requirement for Residual Solvents – USP<467>, EP<5.4>. No solvents are used in the manufacturing process.

Microbiological Properties

Total aerobic microbial count	NMT 1000 cfu/g
Total combined molds and yeasts count	NMT 100 cfu/g
Escherichia coli	Absent
Pseudomonas aeruginosa	Absent
Salmonella species	Absent
Staphylococcus aureus	Absent

General Information

- (1) This product is manufactured in accordance with the Good Manufacturing Practices, complies with the current USP/NF/EP requirements.
- (2) Package: 15 kgs plastic bag.
- (3) Store in dry area, in tight containers.
- (4) Shelf life from the manufacturing date: 3 years when preserved in tight containers.
- (5) NMT = Not More Than , NLT= Not Less Than
- (6) DMF number 9201
- (7) CAS: 9004-34-6

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