

CMC (Carboxy Methyl Cellulose)

Carboxymethylcellulose – thickener

Product Description

Sodium Carboxymethylcellulose (CMC) is a water-soluble polymer used as a thickener, binder and stabilizer in pharmaceutical, food and industrial applications. Available in all grades.

Certificate of Analysis

HSN Code: 3912.31

CAS Number: 9004-32-4

Classification: Pharmaceutical/Industrial Excipients

Parameter	Specification	Test Method
Appearance	White to cream granular or fibrous powder	Visual
Assay (Sodium CMC)	"e 99.5% on dried basis	Complexometric Titration
Identification	IR spectrum conforms	IR Spectroscopy
pH (1% aq. solution)	6.0–8.5	Potentiometry
Viscosity	Grade-dependent: 5–50,000 mPas (1% or 2% aq.)	Brookfield viscometer
Degree of Substitution (DS)	0.65–0.95	Chemical analysis
Loss on Drying	"d 10.0%	USP <731>
Chloride	"d 0.5%	Argentometric titration
Heavy Metals (as Pb)	"d 20 ppm	ICP-MS

Physical Properties

Appearance: White to cream granular or fibrous hygroscopic powder

Odor: Odorless

Solubility: Readily dispersible in cold or hot water to form clear to opalescent viscous solution

Packing: 25 kg multi-layer paper bags with inner PE liner; various pack sizes for pharma use

Storage: Store in cool, dry, well-ventilated area. Keep away from moisture. Shelf life 2 years from manufacture.

Safety & Handling

PPE: Dust mask, safety goggles for powder handling

Hazards:

- Dust may cause mild respiratory irritation
- Non-toxic – food and pharmaceutical grade