

SPECIFICATION

Product Name: Hydroxypropyl Methylcellulose- E15 (HPMC) USP Grade
Chemical Formula: N/A
CAS Number: 9004-65-3
Molecular Weight: 50000 g/mol
Appearance: White granular powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
Hydroxypropyl Content	%	4.0 – 12.0
Methoxyl content	%	19.0 – 24.0
Viscosity (MPA S)	-	100000
Loss on drying	%	5.7
Sulphated Ash	%	1.8%
Residue in ignition	%	Max. 1.5%
Water retention rate	%	84% - 86%
Ash content	%	12% - 14%
pH value	-	7 – 8
Moisture content	%	4%

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in chloroform. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, direct sunlight, and contamination, as HPMC is hygroscopic. Keep the container tightly closed in the original, properly labeled packaging. Store away from strong oxidizing agents and incompatible materials to maintain its viscosity, flow properties, and product stability in accordance with USP standards.

Applications

- Use: Widely used as a pharmaceutical excipient in pharmaceutical, nutraceutical, and food formulations. It functions as a binder, film-forming agent, thickener, suspending agent, viscosity modifier, and controlled-release polymer. It is commonly incorporated into tablets, capsules, hard capsule shells, oral liquids, suspensions, ophthalmic preparations, topical gels, creams, and controlled-release dosage forms. HPMC E15 also improves tablet integrity, coating quality, product stability, and controlled drug release, while complying with USP standards.
- Dosage: Depends on the formulation, manufacturing process, and the desired product performance.

Packaging

- Standard Packing: 25 Kgs Fiber Drum and 1 Kgs or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.