technical data sheet

Hydroxypropyl methylcellulose, HPMC

Hydroxypropyl methylcellulose (HPMC) is derived from cellulose by treating it with propylene oxide and methyl chloride. This modification introduces hydroxypropyl and methyl groups into the cellulose backbone. It is soluble in cold water and form a viscous solution. HPMC is a multifunctional polymer that has been widely used in various industries due to its excellent thickening, stabilizing and film forming properties.

Specification

Appearance	White or off white powder
Moisture, %	Max. 5.0
pH value	6.0 - 9.0
Particle size, through 100 mesh, %	Min. 95

Grade

Grade	**Viscosity**[a], mPa.s
GA7520	15000-25000
GA7530	25000-35000
GA7540	35000-45000

[a] Brookfield LVT, SP#4/6rpm, 2% aqueous solution, wet basis, 20℃

Packaging & Storage

Standard Packing	50 lb bag, 40 bags per pallet 25 kg bag, 40 bags per pallet
Storage	Each unit is labeled with product name and lot number. Store in a cool, dry area for optimal shelf life.
Handling	For safe handling of this product, please refer to the Safety Data Sheet (SDS).

Shelf Life

Shelf Life	2 years

Usage & Application

Typical Dosage: 0.1 to 5%

Applications:

- Construction: Used as a thickener, water retention agent, and binder in cement-based products such as tile adhesives, mortars, renders, and plasters.
- Paints and Coatings: Utilized as a thickener, rheology modifier, and film former in water-based paints, coatings, and adhesives to improve their application properties and performance.
- Textiles: Applied as a sizing agent, thickener, and modifier in textile printing, dyeing, and finishing processes to enhance fabric properties and processing efficiency.
- Oil and Gas: Used as a drilling fluid additive to control rheology, improve fluid loss control, and enhance wellbore stability during drilling operations.

Regulatory Information

CAS No.	9004-65-3
Country of Origin	Made in China

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