

**KIMA CHEMICAL CO.LTD**  
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[www.kimachemical.com](http://www.kimachemical.com)



## Hydroxypropyl Methylcellulose(HPMC)

CAS NO.:9004-65-3

Chemical Name: Hydroxypropyl Methylcellulose,HPMC,Methyl Hydroxypropyl cellulose,MHPC,Cellulose Ethers

Molecular Formula: C<sub>3</sub>H<sub>7</sub>O \*

Molecular Weight: 59.08708

Appearance: White Powder

HS code:39123900

Hydroxypropyl Methyl Cellulose (HPMC) can also be known as Methyl Hydroxypropyl Cellulose MHPC, hypromellose, are kinds of non-ionic cellulose ether, that are a natural powder of white colored to off-white-colored colour, that serve as a thickener, binder, surfactant, protective colloid, lubricant, emulsifier, and suspensions and normal water maintenance aid. Additionally, these kinds of cellulose ethers show properties of energy gelation, metabolic inertness, enzyme level of resistance, lower stench and style, and pH stability.

Hydroxypropyl Methyl Cellulose HPMC are widely used in construction,pharmaceutical drug,food,plastic, detergent,paints,textiles and many others.We can easily supply the regular quality HPMC, we also layout the modified Hydroxypropyl Methyl Cellulose HPMC according to buyer needs. Following altered, we can get the product or service that have very long open time, great anti-slag,excellent workability and many others.

### Chemical Specification

Specification	HPMC 60E ( 2910 )	HPMC 65F ( 2906 )	HPMC 75K ( 2208 )
Gel temperature (°C)	58-64	62-68	70-90
Methoxy (WT%)	28.0-30.0	27.0-30.0	19.0-24.0
Hydroxypropoxy (WT%)	7.0-12.0	4.0-7.5	4.0-12.0

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Viscosity(cps, 2% Solution)	3, 5, 6, 15, 50, 100, 400,4000, 10000, 40000, 60000,100000,150000,200000
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**Construction Grade Hydroxypropyl Methylcellulose (HPMC):**

Hydroxypropyl Methylcellulose (HPMC) Construction Grade are water soluble, nonionic cellulose ethers, which are offered as free flowing powder or in granular form. HPMC can be seen as a generic term for mixed etherification cellulose ethers. Common to these cellulose ethers is the methoxylation. Additionally, the reaction can be achieved with propylene oxide. HPMC are widely used in wall putty, Skim coat,joint filler, self-levelling ,Tile adhesives, dry mixed mortar, cement and gypsum based plaster etc.We can provide both non-modified grade and modified grade HPMC, which has long open time, good water retention, excellent workability and Good slipping resistance etc.

Construction Grade HPMC	Viscosity (NDJ, mPa.s, 2%)	Viscosity (Brookfield, mPa.s, 2%)
HPMC MP400	320-480	320-480
HPMC MP60M	48000-72000	24000-36000
HPMC MP100M	80000-120000	40000-55000
HPMC MP150M	120000-180000	55000-65000
HPMC MP200M	180000-240000	70000-80000



### Typical Applications:

#### Cement Plaster / Dry mix mortar

- Increased water demand: increased open time, expanded spray area and more economical formulation.
- Easier spreading and improved sagging resistance due to improved consistency.
- Easy dry mix formula due to cold water solubility: lump formation can be easily avoided, ideal for heavy tiles.
- Good water retention: prevention of fluid loss to the substrates, the appropriate water content is kept in mixture which guarantees longer concreting time.

#### Tile Adhesives

- Improved adhesion and sliding resistance: especially for heavy tiles.
- Better workability: lubricity and plasticity of plaster is ensured, mortar can be applied easier and quicker.
- Good water retention: prolonged opening time will make thing more efficient.



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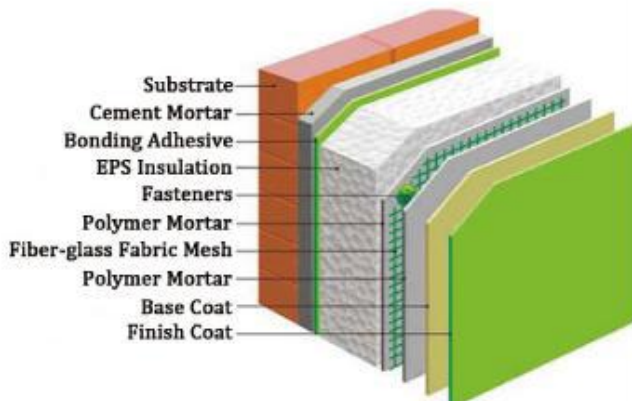


### Exterior Insulation and Finish System ( EIFS )

- Reduced air entrancement and water uptake.
- Improved adhesion.
- Good wetting ability for EPS board and substrate.

### Wall putty/Skim coat

- Increased mortar yield: depending on the weight of the dry mixture and appropriate formulation ,HPMC can increase the mortar volume.
- Water retention: maximized water content in slurry.
- Anti-sagging: when spreading a thicker coat corrugation can be avoided.



### Crack Filler

- Water retention ensures prolonged work time.
- Sag resistance: improved mortar bonding ability.
- Better workability: proper thickness and plasticity.

### Self-leveling

- No effect on slurry fluidity with low viscosity HPMC, while its water retention characteristics improve the surface.
- Protection from water exudation and material s

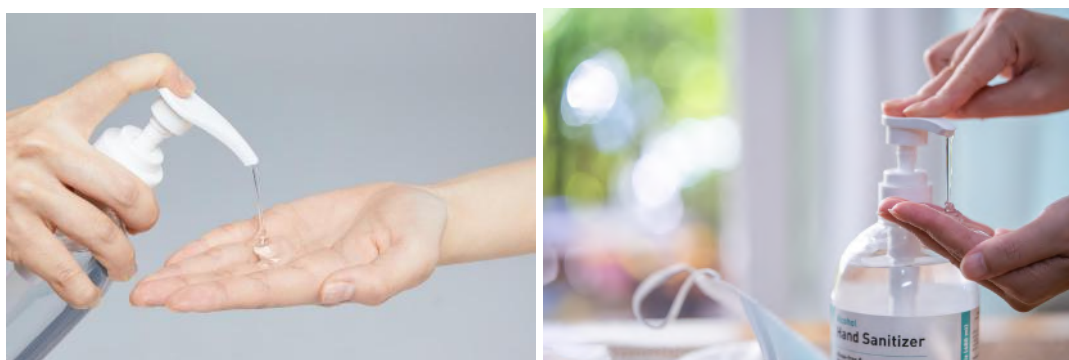




**Detergent Grade Hydroxypropyl Methylcellulose (HPMC):**

Hydroxypropyl Methylcellulose (HPMC) Detergent Grade is white powder with good water solubility. It has thickening, adhesion, dispersing, emulsifying, film, suspended, adsorption, gel, and protective colloid properties of surface activity and maintain moisture function properties etc. Detergent grade HPMC is surface treated through unique production process, it can provide high viscosity with fast disperse and delayed solution. Detergent grade HPMC can be dissolved in cold water quickly and increase excellent thickening effect. Hydroxypropyl Methyl Cellulose HPMC is used for detergent liquid, hand sanitizer, Alcohol gel, shampoo, washing liquid, cleaning chemicals as thickener and dispersing agent

Detergent Grade HPMC	Viscosity (NDJ, mPa.s, 2%)	Viscosity (Brookfield, mPa.s, 2%)
HPMC MP100MS	80000-120000	40000-55000
HPMC MP150MS	120000-180000	55000-65000
HPMC MP200MS	180000-240000	70000-80000



**Pharma Grade Hydroxypropyl Methylcellulose (HPMC):**

Hydroxypropyl Methylcellulose (HPMC) Pharmaceutical Grade is Hypromellose pharmaceutical excipient and supplement, it is effective as a binder, since it does not interact with drugs. It has superior stability, a non-ionic character and is widely used

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as a binder for granulation. Due to its plant derived nature and excellent moisture stability, hypromellose replaces gelatin in hard capsule manufacturing.

KimaCell Cellulose ether consists of methyl cellulose (USP, EP,BP,CP) and three substitution types of hydroxypropyl methyl cellulose (hypromellose USP, EP,BP,CP) each available in several grades differing in viscosity.HPMC products are derived from natural refined cotton linter and wood pulp, meeting all the requirements of the USP, EP, BP, along with Kosher and Halal Certifications.

KimaCell HPMC provides a variety of functions such as water retention, protective colloid, surface activity, sustained release. It is a non-ionic compound resistant to salting out and stable over a wide pH-range. Typical applications of HPMC are binder for solid dosage forms such as tablets and granules or thickener for liquid applications.

They are produced in a specialized production plant in Bohai New District where plant-based raw material is turned into these special pharmaceutical excipients. Different viscosity grades are available according to your requirement.HPMC comes in diverse viscosity ranges from 3 to 200000 cps, and it can be widely used for tablet coating, granulation, binder, thickener, stabilizer and making vegetable HPMC capsule. Sustained release matrix tablets based on water soluble cellulose derivatives are the easiest, cost-effective and most popular way to modify drug release.

### Chemical Specification

Hypromellose Specification	60E ( 2910 )	65F ( 2906 )	75K ( 2208 )
Gel temperature (°C)	58-64	62-68	70-90
Methoxy (WT%)	28.0-30.0	27.0-30.0	19.0-24.0
Hydroxypropoxy (WT%)	7.0-12.0	4.0-7.5	4.0-12.0

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Viscosity(cps, 2% Solution)	3, 5, 6, 15, 50, 100, 400,4000, 10000, 40000, 60000,100000,150000,200000
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**Product grade:**

Hypromellose Grade	Viscosity(cps)	Remark
HPMC E5	4.0-6.0	Hypromellose 2910
HPMC E6	4.8-7.2	
HPMC E15	12.0-18.0	
HPMC E4M	3200-4800	
HPMC F50	40-60	Hypromellose 2906
HPMC K100	80-120	Hypromellose 2208
HPMC K4M	3200-4800	
HPMC K100M	80000-120000	

**Application field:**

Pharma Excipients Application	Pharma Grade HPMC	Dosage
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Bulk Laxative	K4M,K100M	3-30%
Creams, Gels	E4M,75K4M	1-5%
Ophthalmic Preparation	E4M	01.-0.5%
Eye Drops Preparations	E4M	0.1-0.5%
Suspending Agent	E4M, K4M	1-2%
Antacids	E4M, K4M	1-2%
Tablets Binder	E5, E15	0.5-5%
Convention Wet Granulation	E5, E15	2-6%
Tablet Coatings	E5, E15	0.5-5%
Controlled Release Matrix	K100M,K15M	20-55%



### **Food Grade Hydroxypropyl Methylcellulose (HPMC):**

Food Grade Hydroxypropyl Methylcellulose (HPMC) is a non-ionic water soluble cellulose ether Hypromellose, targeted for the food and dietary supplement applications.

Food grade Cellulose gum is a unique food ingredient ,food grades are a range of high quality hydroxypropyl methyl cellulose (E464) and methyl cellulose (E461)products. They are produced in a specialized production plant in Bohai New District where plant-based raw material is turned into these special food ingredients.

The Kimacell® food grades have the unique property to gel when heated. Because of this thermal gelation, KimaCell®food grades provide bite to plant-based products and stability to reformed food.food grades have the unique property to gel when heated. Because of this thermal gelation, Food grade HPMC provides bite to plant-based



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products, stability to reformed food and softness to gluten-free bread.



**Package:** 25kg paper bags with PE inner ;  
25kg/Fiber Drum