

# Core Product Portfolio – Specifications & Standards

## 1、HPMC Product Series: Classification & Specifications

Product Model	Viscosity Range (mPa·s, 2%)	Methoxy Content (%)	Hydroxypropoxy Content (%)	Gelation Temperature (°C)	Primary Application Fields
YHD-100	Low Viscosity (50-100)	28.0-30.0	7.0-12.0	≥58	Water-based coatings, dispersants
YHD-400	Medium Viscosity (4000-6000)	27.0-29.0	4.0-7.5	≥62	Tile adhesives, putty powders
YHD-750	Medium-High Viscosity (75,000-95,000)	19.0-24.0	4.0-12.0	≥70	Mortars, gypsum-based products
YHD-P60	Pharmaceutical Grade (60-100)	28.0-30.0	7.0-12.0	≥58	Tablet coating, binders
YHD-F50	Food Grade (50-100)	28.0-30.0	7.0-12.0	≥58	Dairy products, sauce stabilizers

Note: The above values are typical specifications. For specific parameters, please refer to the actual quality inspection certificate.

## 2、MA Product Series: Classification & Specifications

Product Model	Viscosity Range (mPa·s, 2%)	Methoxy Content (%)	Gelation Temperature (°C)	Primary Application Fields
YHD-M15	Low Viscosity (10-20)	27.5-31.5	≥55	Ceramic binders, vinyl chloride polymerization
YHD-M100	Medium Viscosity (80-120)	27.5-31.5	≥55	Construction materials, personal care products
YHD-M400	High Viscosity (350-550)	27.5-31.5	≥55	Pharmaceutical industry, polymer synthesis

Note: The above values are typical specifications. For specific parameters, please refer to the actual quality inspection certificate.

## 3、Construction Grade Standards

### HPMC

Test Item	Specification Range
Methoxy Content	17 ~ 25%
Hydroxypropoxy Content	6.0 ~ 12%
Viscosity (mPa·s)	100~200,000 (customizable)
Moisture Content	≤6%
Ash Content	≤5%
Water Retention Rate	≥85%

### HEMC

Test Item	Specification Range
Methoxy Content	19 ~ 24%
Hydroxyethoxy Content	6.0 ~ 11%
Viscosity (mPa·s)	100 ~ 200,000 (customizable)
Moisture Content	≤6%
Ash Content	≤5%
Water Retention Rate	≥85%

#### 4、Specialty Application Grade Standards — HPMC/MA

Test Item	HPMC Grade Specifications			MA Grade Specifications
	YHD-HK2208	YHD-HG2910	YHD-HF2906	YHD-MA
Description	White or off-white fibrous or granular powder; swells in cold water to form a clear to slightly turbid colloidal solution			
Methoxy Content (%)	19.5 ~ 23.50	28.0 ~ 30.0	27.5 ~ 29.7	27.5 ~ 32
Hydroxypropoxy Content (%)	7.5 ~ 11.5	8.0 ~ 11.5	4.5 ~ 7.0	—
Viscosity (mPa·s)	5 ~ 200,000			
pH	5.5 ~ 7.5			
Moisture (%)	≤4.5%			
Residue on Ignition (%)	≤1.4%			
Heavy Metals (ppm)	≤10 ppm			
Arsenic Salts (ppm)	≤2 ppm			
Speckles (spots)	≤14			
Total Aerobic Microbial Count (cfu/g)	≤600 cfu/g			
Yeasts and Molds (cfu/g)	≤60 cfu/g			
Escherichia coli	Not detected			