

HEC • HEMC•HPMC

Construction | Coatings | Daling | Oilfield



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ZHIWEI

Cellulose Ether Manufacturer

Zhiwei (Jinan) New Materials Co., Ltd.

Make performance repeatable

We connect disciplined manufacturing with fast, practical formulation support—so customers can launch, scale, and supply with confidence.



Company Profile

One manufacturing base,
one global service hub.

Zhiwei (Jinan) New Materials is the market-facing sales and service hub for our cellulose ether business. We focus on fast communication, grade selection, sampling coordination, and order execution—supporting customers across construction, coatings, personal care, and oilfield supply chains.



Manufacturing Base

Our Zhejiang manufacturing base was established in Feb 2017 and covers 50 mu with 28,000 m² of manufacturing space.

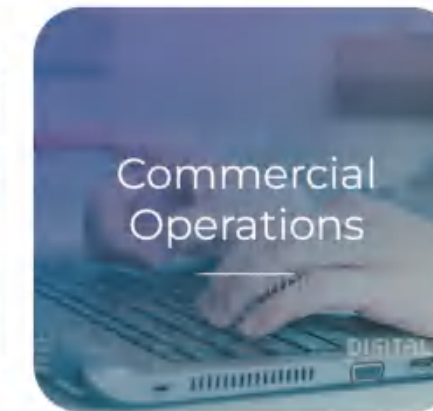
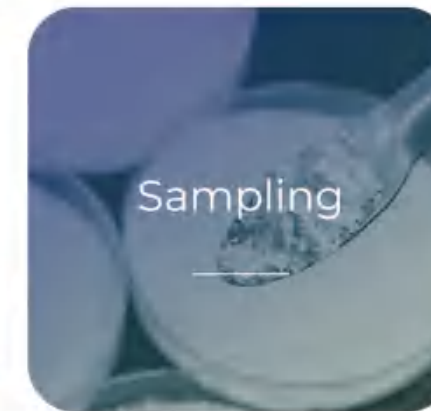
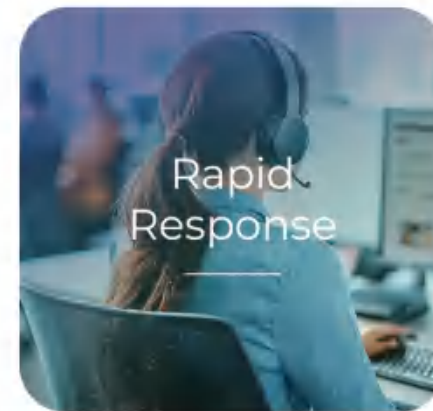


It operates a dedicated cellulose ether production line with 15,000 tons/year capacity and a team of about 150 employees, supported by 13 patents and 4 provincial-level technology achievements.



Jinan hub

This model shortens decision cycles and reduces formulation adjustment risk.



Manufacturing Discipline



From raw-material selection to finishing and bagging, our workflows are designed for repeatability.

The base publicly states the use of refined cotton and advanced preparation processes to keep key indicators competitive, including fineness, viscosity, ash, and transmittance.

Advanced Equipment



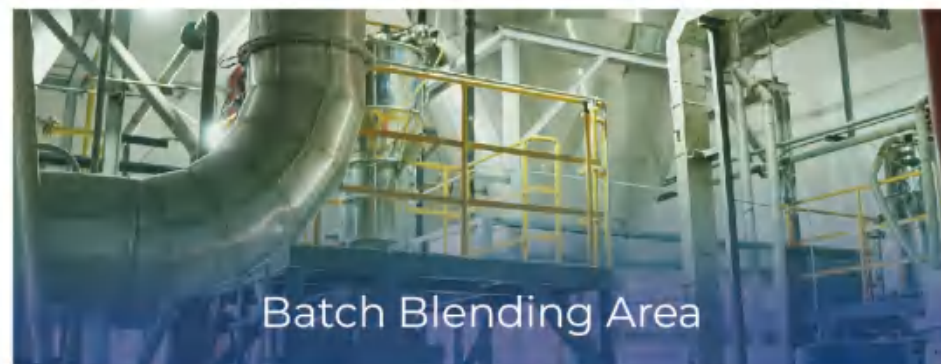
Vertical Production Layout



Dedicated Drying Pipeline System



Dust Collection System



Batch Blending Area



Controlled Etherification Process



Waste Treatment System

Quality & Laboratory

We operate a dedicated cellulose ether laboratory with **5 floors** and **2,000+ m²** total testing area, focused on HEC/HEMC performance verification.

A full suite of instruments supports routine QC and application checks—helping customers reduce batch-to-batch adjustments and speed up formulation validation.



R&D Center

More than supply—technical partnership.



We support customers with grade selection, sample evaluation, troubleshooting (flow, sag, open time, stability), and co-validation to hit defined performance windows—especially where cellulose ethers influence water retention, workability, and adhesion in mineral systems..

Turn Application Needs Into Repeatable Performance

Zhiwei does more than supply cellulose ether products.

We support customers with grade selection, sample testing, and application-based communication.

From coatings and construction materials to daily chemical and oilfield systems, we help customers find a practical direction faster and bring tested performance into stable production.



Water-Based Coatings

Supports viscosity control, smooth application feel, sag resistance, and storage stability in water-based coating systems.



Dry-Mix Construction Materials

Improves water retention, workability, open time, and system stability in tile adhesive, mortar, wall putty, plaster, and skim coat formulations.



Daily Chemical Products

Helps build clear thickening, stable texture, and good compatibility in personal care, home care, detergent, and cleaning formulations.



Oilfield Systems

Helps build viscosity and adjust flow behavior in fluid systems where stable handling and field validation are important.

The right cellulose ether grade starts with the real application, not only with a product name.

Move Uncertainty Forward Before Mass Production

From requirement review to sample validation and stable supply, Zhiwei works as an application-oriented supply partner.

We help customers clarify key formulation questions before large-scale orders, so technical decisions and commercial execution can move in the same direction.



Requirement Review

Share your application system, target viscosity range, working method, and main performance concerns.



Grade Suggestion

Based on your formulation goal, we recommend suitable grade options for initial testing.



Sample Validation

Samples can be tested around water retention, workability, open time, stability, rheology, or other key performance targets.



Stable Supply

Once the direction is confirmed, our manufacturing and delivery system supports batch execution and export supply.

Send us your application system, target viscosity range, and testing focus. Zhiwei will help recommend suitable grade options and a practical sample path.

Product Portfolio



HEC

Grade	Corresponding label value	Commonly used test methods and viscosity ranges
HEC 40	100	LV 2% 25~150mpa.s
HEC 300	300	LV 2% 151~450mpa.s
HEC 2K	2000	LV 2% 1501~3000mpa.s
HEC 6K	6000	LV 2% 4,000~8,000mpa.s
HEC 15K	15000	LV 1% 700~1500mpa.s RV 2% 9,000~15,000mpa.s
HEC 30K	30000	LV 1% 1,501~2,600mpa.s RV 2% 18,000~22,000mpa.s
HEC 50K	50000	LV 1% 2,601~3,400mpa.s RV 2% 22,000~27,000mpa.s
HEC 100K	100000	LV 1% 3,401~5,500mpa.s RV 2% 28,000~35,000mpa.s
HEC 150K	150000	LV 1% 5,501~8,000mpa.s

Viscosity is measured by the LV method at 20°C using a 1% aqueous solution.rt



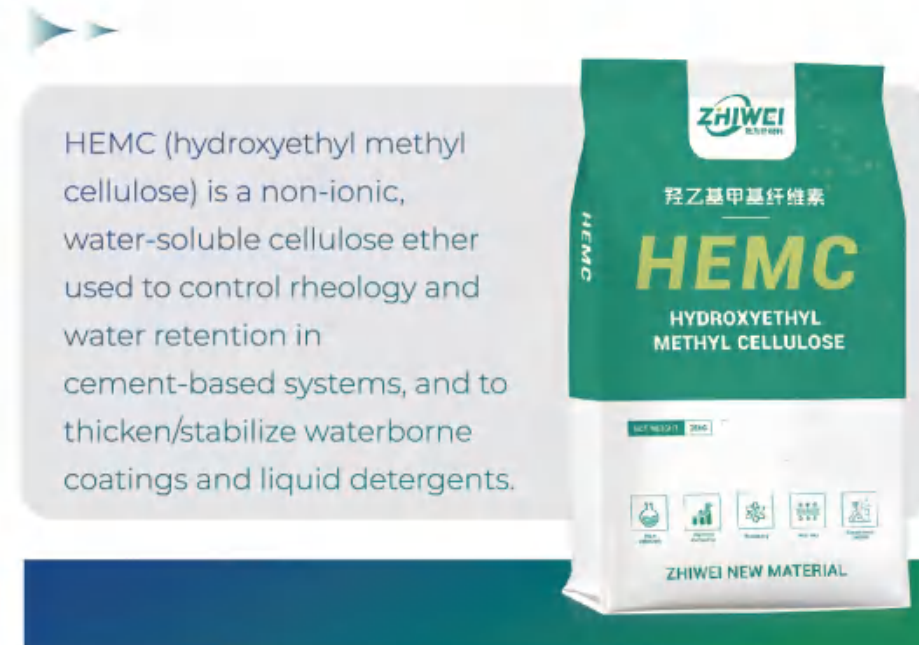
Product Portfolio



HEMC

Grade	Corresponding label value	Commonly used test methods and viscosity ranges
HEMC 400	400	RV 2% 280~450mPa.s NDJ 2% 400~600mPa.s
HEMC 4K	4000	RV 2% 2,500~4,000mPa.s NDJ 2% 3,200~4,600mPa.s
HEMC 30K	30000	RV 2% 18,000~25,000mPa.s NDJ 2% 30,000~50,000mPa.s
HEMC 60K	60000	RV 2% 25,000~35,000mPa.s NDJ 2% 55,000~85,000mPa.s
HEMC 100H	100000	RV 2% 45,000~55,000mPa.s NDJ 2% 90,000~120,000mPa.s
HEMC 150H	150000	RV 2% 55,000~65,000mPa.s NDJ 2% 14,000~160,000mPa.s
HEMC 200H	200000	RV 2% $\geq 66,000$ mPa.s NDJ 2% 180,000~220,000mPa.s

Viscosity is measured by the RV method at 20°C using a 2% aqueous solution.



Product Portfolio



HPMC

Grade	Corresponding label value	Commonly used test methods and viscosity ranges
HPMC 400	400	NDJ 2% 400~600mPa.s RV 2% 280~450mPa.s
HPMC 4K	4000	NDJ 2% 3,200~4,600mPa.s RV 2% 2,500~4,000mPa.s
HPMC 40K	40000	NDJ 2% 30,000~50,000mPa.s RV 2% 18,000~25,000mPa.s
HPMC 100K	100000	NDJ 2% 90,000~120,000mPa.s RV 2% 45,000~55,000mPa.s
HPMC 200K	200000	NDJ 2% 180,000~220,000mPa.s RV 2% ≥66,000mPa.s

Viscosity values are: (1) NDJ Viscosity of a 2% aqueous solution at 20°C;
(2) NDJ Viscosity of a 1% aqueous solution at 20°C.

Construction

In drymix mortars, HPMC improves water retention, open time, and smooth application workability.

Daily Chemical

In home care liquids, HPMC thickens and stabilizes the formula while supporting foam and clarity.

Ceramic

In ceramic processing, HPMC acts as a binder and rheology aid for better green strength and smoother forming.

HPMC (hydroxypropyl methyl cellulose) is a non-ionic, water-soluble cellulose ether used to improve water retention and workability in drymix construction materials, to thicken/stabilize home care liquids, and to support ceramic forming and binding.



Grade	Series	Flexibility	MFFT (°C)	TG (°C)	Solid Content	Bulk Density (g/L)	pH (10%)	Ash Control	Core SellingPoint	Tile Adhesive	Tile Grout	EIFS	Putty / Skim Coat /Decorative Mortar	Waterproof Mortar	Repair Mortar	Self-Leveling
ZW-4023N	N	Hard	1	0~5	>98%	400-550	5-8	13±2%	Balanced adhesion and workability for broad use	●●●	●	●	●●	—	—	—
ZW-5010N	N	Hard	4	10~15	>98%	400-550	5-8	13±2%	High strength and cost-effective for standard formulations	●●●	●●	●	●●	—	—	—
ZW-5044N	N	Very flexible	0	-10~-15	>98%	400-550	5-8	12±2%	Strong flexibility for waterproofing and repair systems	●	●	●●●	●●	●●●	●●	—
ZW-5028E	E	Semi-flexible	4	0~5	>98%	400-550	5-8	12±2%	Good option for upgraded mid-range tile adhesive systems	●●●	—	—	●	—	—	—
ZW-7034E	E	Flexible	0	-5~0	>98%	400-550	5-8	10±2%	Broad application range for mid-to-high-end formulations	●●●	●●	●●●	●●	●	●●	—
ZW-8034H	H	Flexible	0	-5~0	>98%	400-550	5-8	8±2%	Strong hydrophobic effect for waterproof and low-water-absorption systems	●	●●●	●●	●●	●●●	—	—
ZW-5021T	T	Semi-flexible	4	0~5	>98%	400-550	5-8	12±2%	Suitable for anti-sag and easy-application tile adhesive systems	●●●	—	—	●●	—	—	—
ZW-5023L	L	Semi-flexible	4	0~5	>98%	400-550	5-8	12±2%	Designed for flow / leveling balance in self-leveling systems	—	—	—	—	—	—	●●●

Packaging & Delivery



Packaging options

25 kg multi-wall paper bag (PE inner liner) / jumbo bag / bulk supply / OEM labeling (upon request).

Logistics

Export-ready palletizing and moisture protection, with COA/SDS and documentation support for international shipments.



Cellulose ethers are derived from cellulose. For personal & home care applications, leading suppliers describe HEC thickeners as nature-derived and compatible with clear formulations across pH and salt conditions.

We focus on responsible manufacturing through safety management, waste control, and continuous improvement—helping customers build durable, consistent products.