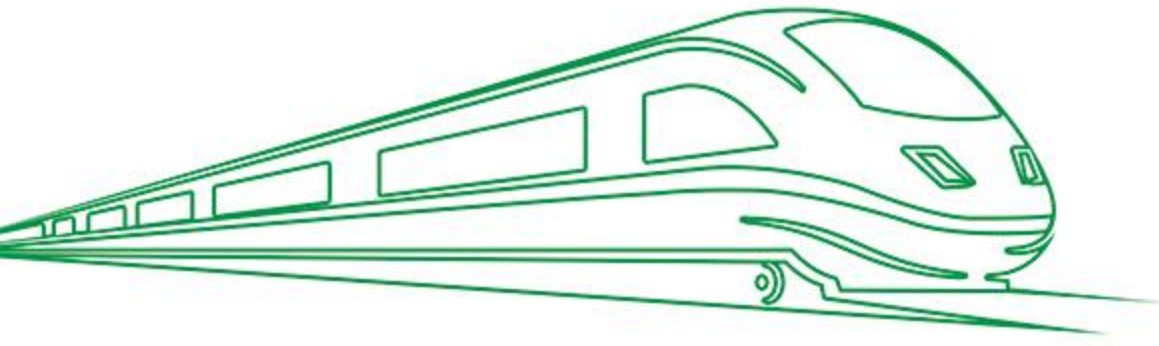


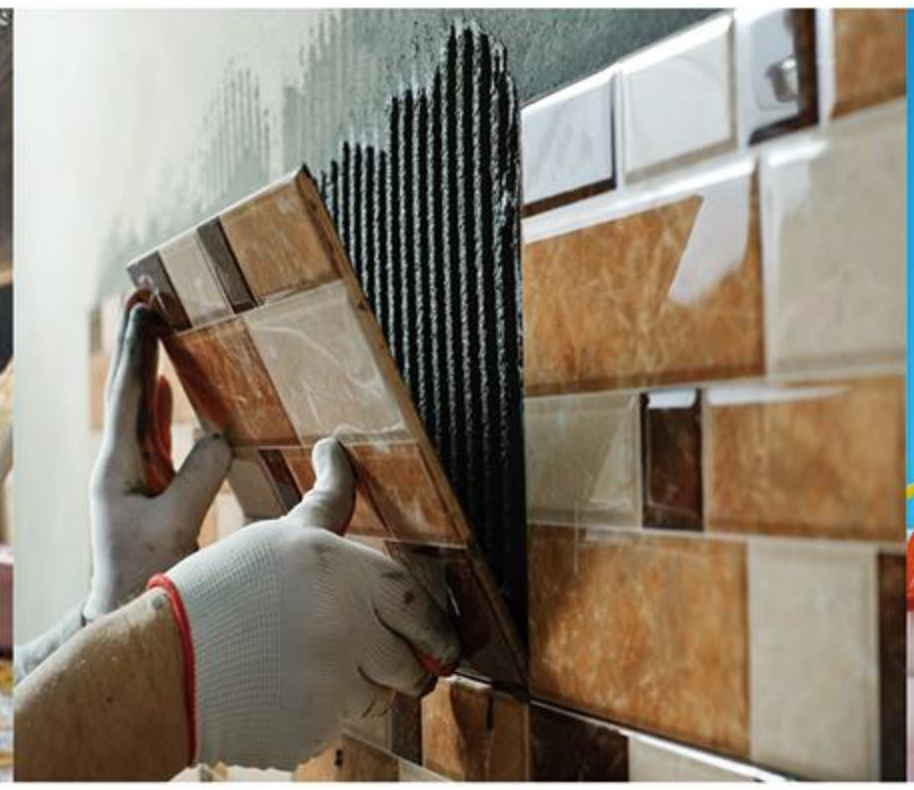
BANGCEL® 梆尚
BEST CELLULOSE

合 浩® HEHAO
合浩纤维素
HEHAO CELLULOSE

COMPANY
INTRODUCTION

BANGSHANG was established in 2007, our factory HEHAO Cellulose is located at economic development zone ,Jinzhou city, Hebei Province,China . We are a manufacturer of Hydroxypropyl Methyl Cellulose (HPMC), Methyl Hydroxylethyl Cellulose (MHEC/HEMC), Hydroxy Ethyl Cellulose(HEC), Carboxyl Methyl Cellulose(CMC) and various types of Redispersible Polymer Powder(RDP) ect.

Our factory covers an area of 80000 square meters, fixed assets of 90 million yuan, 268 employees, including 26 senior technical personnel, 8 new product research.The annual output of cellulose is up to 30,000/ year, and the annual output of RDP is up to 20,000 tons/year. Looking forward to cooperation with you .



Directory

PRODUCTS

HPMC

MHEC/HEMC

RDP

HEC

CMC

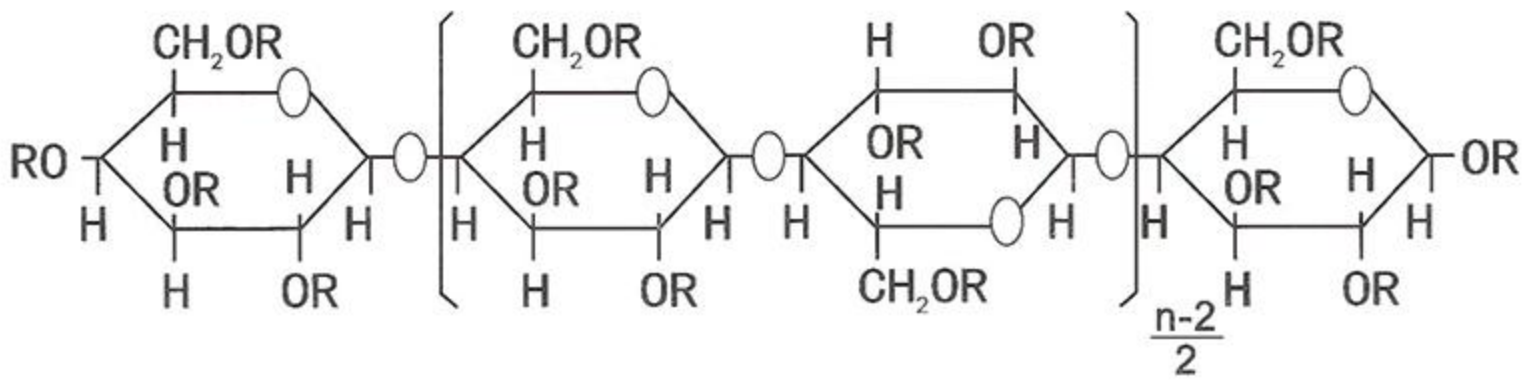
PVA

Wood Cellulose Fiber

PP Fiber

HPS

HYDROXYPROPYL METHYL CELLULOSE-HPMC



Note: “n” is degree of polymerization, R is H, -CH3 or -CH2CH(CH3) OH

Brief Introduction

BANGCEL® Hydroxypropyl methylcellulose (HPMC) is one of the non-ionic cellulose mixtures.It's a semi-synthetic, inactive, viscoelastic polymer, widely used in water-based coating, construction and building materials, printing inks, oil drilling area ect .

CAS No.

No.: 9004-65-3

MF

C12H20O10

Place of Origin

Hebei, China (Mainland)

Specification

Item		Index
Appearance		white or similar white powder
Methoxyl group %		19-30
Hydroxyl propyl group %		4-12
Gel temperature /°C		60-90°C
PH value		5.0-8.0
Viscosity(2%,20°C)	Brookfield	100-70000 mPa.s
	NDJ	100-200000 mPa.s
Water content %		≤5
Ash content %		≤5

Main Application

- Tiles Adhesive
- Joint Filler
- Gypsum Plaster
- Water Based Painting
- Wall Putty
- Dry Mix Mortar
- Self Leveling Mortar
- Detergent

Package

25kg/bag. 14MT/20’FCL,28MT/40’FCL without pallet .

Storage and Shelf Life

2 years under cool, dry conditions in original packaging away from heat sources. It is recommended to use the product in rotation on a first-in first-out basis.

METHYL HYDROXY ETHYL CELLULOSE-MHEC/HEMC



Brief Introduction

BANGCEL® METHYL HYDROXY ETHYL CELLULOSE(MHEC/HEMC) is widely used in water-based coating, construction and building materials, printing inks, oil drilling and other aspects, plays a role in thickening and water retention, improve the construction, used for dry and wet mortar series products.

CAS No.	MF	Place of Origin
No.: 9032-42-2	C2H6O2·xCH4O	Hebei, China (Mainland)

Specification

Item		Index
Appearance		white or yellowish powder
Methyl group %		17-30
Hydroxyl Ethyl group %		4-12
Gel temperature /°C		60-90°C
PH value		5.0-8.0
Viscosity(2%,20°C)	Brookfield	100-70000 mPa.s
	NDJ	100-200000 mPa.s
Water content %		≤5
Ash content %		≤5

Main Application

- Water Based Painting
- Tiles Adhesive
- Joint Filler
- Gypsum Plaster
- Detergent
- Wall Putty
- Dry Mix Mortar
- Self Leveling Mortar

Package

25kg/bag. 14MT/20'FCL,28MT/40'FCL without pallet .

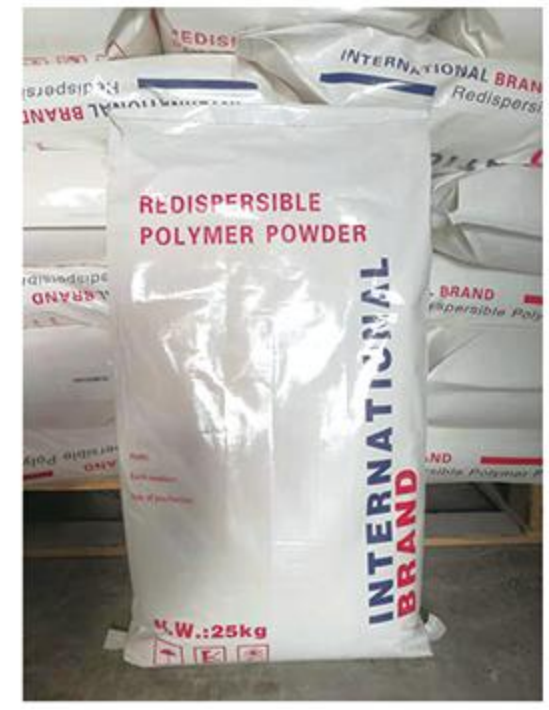
Storage and Shelf Life

2 years under cool, dry conditions in original packaging away from heat sources.
It is recommended to use the product in rotation on a first-in first-out basis.

Redispersible Polymer Powder -RDP

Brief Introduction

BANGCEL® Redispersible Polymer powder products is an water-soluble redispersible powder, divided into ethylene/vinyl acetate copolymer, vinyl acetate/ethylene tert carbonate copolymer, acrylic copolymer and so on, spray drying powder made of adhesive, with polyvinyl alcohol as a protective colloid.This powder in contact with water can be quickly dispersed into latex, because of the Redispersible Polymer powder has a high bonding ability and unique properties, such as: water resistance, construction and insulation, so their application is extremely wide.



CAS No.

No.:24937-78-8

MF

(C4H6O2.C2H4)x

Other name

Ethylene-vinyl acetate copolymer

Place of Origin

Hebei, China (Mainland)

Specification

Appearance	White powder, freely flowing
Solid content	≥99.0%
Ash content	10% ±2
Stacking density	450-550g/L
Average particle size	~80 μm
pH Value	5.0-7.0
Glass transition temperature	0 to 15℃
Minimum film-forming temperature	-5℃ to 0℃

Main Application

- Tiles Adhesive
- Joint Filler
- Gypsum Plaster
- Wall Putty
- Dry Mix Mortar
- Self Leveling Mortar

Package

A. Standard Packing: In 25kg paper bags inner with PE bags
B. Big Bag or other special packages as per clients' request.

Storage

Store it in a cool, dry place below 30°C and protected against humidity and pressing.

Hydroxy Ethyl Cellulose- HEC

Brief Introduction

BANGCEL® Hydroxy Ethyl Cellulose (HEC) is a white or pale yellow, tasteless, non-toxic fibrous or powdered solid, prepared by etherification of basic cellulose and ethylene oxide (or chloroethanol). It is a non-ionic soluble cellulose ether.Because of its good properties of thickening, suspending, dispersing, emulsifying, gluing, film forming, protecting water and providing protective colloid, HEC has been widely used in the fields of petroleum exploitation, coating, architecture, medicine and food, textile, paper making and polymer polymerization.

CAS No.

No.: 9004-62-0

MF

C2H6O2'x

Place of Origin

Hebei, China (Mainland)

Specification

Item	Index
Appearance	white or similar white granules or powder
Viscosity(1% ,25°C,Brookfield)	1000-6000 mPa.s
PH value	5.0-8.0
Water content %	≤5
Ash content %	≤5

Main Application

- Water-based Paint
- Ceramics
- Construction
- Oil(Petroleum)

Package

25kg/bag. 15MT/20'FCL,28MT/40'FCL without pallet .

Storage and Shelf Life

2 years under cool, dry conditions in original packaging away from heat sources. It is recommended to use the product in rotation on a first-in first-out basis.

Carboxy Methyl Cellulose-CMC

Brief Introduction

BANGCEL® CMC is one of the most widely distributed and abundant polysaccharides in nature.At present, the modification technology of cellulose mainly focuses on etherification and esterification.Carboxymethylation is one of the etherification techniques.Cellulose after carboxymethylation carboxymethyl cellulose (CMC), its aqueous solution has thickening, film formation, adhesion, water retention, colloidal protection, emulsification and suspension, widely used in petroleum, food, medicine, textile and paper industry, is one of the most important cellulose ether.

CAS No.

No.:9004-32-4

MF

C6H10O6)n(C2H2O2Na

Place of Origin

Hebei, China (Mainland)

Specification

Index	Technique Requirements
Appearant	White or yellowish free flowing power
Moisture (%,≤)	10
Purity (%,≥)	95
Degree of Substitute	0.90
PH value	7.0-9.0
API filter loss	≤10

Main Application

- Water-based Painting
- Textible
- Oil Driling
- Detergent

Package

25kg/bag. 17MT/20'FCL,28MT/40'FCL without pallet .

Storage

BANGCEL® CMC is easy to absorb water, so it should keep the bags away from damages and contact with water during storage, and CMC should be stored in a dry place. Storage life: 36months.

Polyvinyl Alcohol - PVA

Brief Introduction

Polyvinyl alcohol: organic compound, white flake, flocculent or powder solid, odorless.Soluble in water (above 95℃), slightly soluble in dimethyl sulfoxide, insoluble in gasoline, kerosene, vegetable oil, benzene, toluene, dichloroethane, carbon tetrachloride, acetone, ethyl acetate, methanol, glycol, etc.Polyvinyl alcohol (pva) is an important chemical raw material, used in the manufacture of pva acetal, gasoline-resistant pipes, vinylon synthetic fibers, fabric treatment agents, emulsifiers, paper coatings, adhesives, glues, etc.

CAS No.	MF	Place of Origin
No.:9002-89-5	C2H4O	Hebei, China (Mainland)

Specification

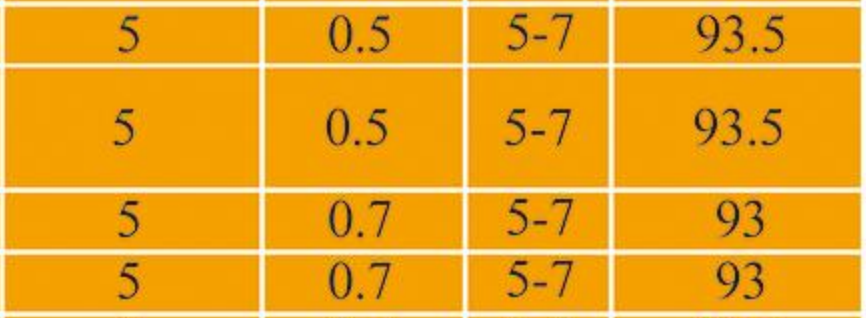
Type	Item	Hydrolysis% (mol/mol)	Viscosity Mpa.s	Volatile(%)≤	Ash(%) ≤	PH	Purity(%) ≤
Fully Hydrolyzed Grades	PVA 04-99	98.0-98.8	4.0-5.0	5	0.5	5-7	93.5
	PVA 05-99	98.0-99.0	5.0-6.5	5	0.7	5-7	93
	PVA 10-99	98.0-99.0	9.0-11.0	5	0.5	5-7	93
	PVA 17-99	98.0-99.0	23.0-29.0	5	0.5	5-7	93.5
	PVA 20-99	98.0-99.0	34.0-39.0	5	0.5	5-7	93.5
	PVA 24-99	98.0-99.0	55.0-65.0	5	0.5	5-7	93.5
	PVA 26-99	99.0-100.0	68.0-78.0	5	0.5	5-7	93.5
Medium Hydrolyzed Grade	PVA 17-92	91.0-93.0	21.0-27.0	5	0.5	5-7	93.5
Partially Hydrolyzed Grades	PVA 04-88	86.0-89.0	4.0-4.5	5	0.7	5-7	93
	PVA 05-88	87.0-89.0	4.0-6.0	5	0.7	5-7	93
	PVA 17-88	87.0-89.0	20.5-24.5	5	0.7	5-7	93.5
	PVA 20-88	87.0-89.0	29.0-34.0	5	0.5	5-7	93.5
	PVA 24-88	87.0-89.0	45.0-55.0	5	0.5	5-7	93.5

Main Application

- Construction and decoration industries
- Textile industry
- Agriculture
- Chemical industry
- Lumbering and paper-making industries
- petroleum exploitation

Package

25kg/bag. 18MT/20'FCL,28MT/40'FCL without pallet .



Storage and Shelf Life

2 years under cool, dry conditions in original packaging away from heat sources. It is recommended to use the product in rotation on a first-in first-out basis.

Wood Cellulose Fiber

Brief Introduction

BANGCEL® Wood Cellulose Fiber is a fiber form additives, which can be mixed with powder material such as cement, gypsum and lime etc to enhance the performance on anti-cracking, water retention, anti-shrinkage and anti-slag.

Technical Parameter

Color	white	grey
Bulk weight (g/L)	190-240	250-280
Fiber length	200um-300um	500um
PH Value	7	7
Moisture	< 5.0%	< 5.0%
Water retention	850%	700%

Feature

- enhance closing cracks effecet and anti-cracking
- increase higher stability
- extened opening time, reduce the formation of skin
- water retention

Main Application

- EIFS Compounds Mortars
- Skim Coat
- Self-leveling mortars&paints
- Cement&lime Plaster
- Stucco&adhesive mortars

Cellulose fiber recommended dosage

Thermal insulation mortar: 0.4-0.5% per ton
Insulation mortar layer: 0.2-0.3% per ton
Exterior wall putty: 0.3-0.5% per ton
Tile adhesive:0.3-0.5% per ton
Caulking agent: 0.4-0.5% per ton
Gypsum plaster 0.2-0.4% per ton

Package

20kg/bag. 10MT/20'FCL,22MT/40'FCL without pallet .

Storage

Store it in dry condition. It's recommented to use within 6 month.

Hydroxypropyl Starch Ether-HPS

Brief Introduction

BANGCEL® Hydroxypropyl starch ether (HPS) is a fine white powder obtained from natural plant materials by modified, highly etherified reaction, and then spray drying without plasticizer.It is completely different from ordinary starch or modified starch.

CAS No.	MF	Place of Origin
No.:9049-76-7	C3H8O	Hebei, China (Mainland)

Specification

Item	Index
Appearance	powder
PH value(3.75% aqueous solution)	9—11
Viscosity(5% aqueous solution)	400—1200mpas
Moisture content %≤	5
* Hydroxypropyl content %	15—30

Main Application

Paper industry: Hydroxypropyl starch can be used as paper sizing and surface sizing to ensure smooth film, reduce the ink consumption, and have a certain ability to nap.
Textile industry: Hydroxypropyl starch can be used as warp size to increase the wear resistance and weaving efficiency. And high substitution degree of hydroxypropyl starch can be used as thickener.
Oil drilling industry: It helps to stabilize oil drilling borehole and improve drilling conditions such as anti-sloughing, flocculation drilling cuttings
Daily chemical industry: Hydroxypropyl starch can be used as binder, suspending agent and thickener in daily chemical industry and cosmetic or coating
Building materials: Hydroxypropyl starch can be used as adhesive, coating or organic liquid.All kinds of (cement, gypsum, lime and calcium base) wall putty additives;All kinds of additives of decorative mortar and plastering mortar;It can be as the molding adhesive of all kinds of ceramic and porcelain products;As good thickener and stabilizer, it plays a role in suspension And emulsion in the aqueous solution. Recommended

Package

25kg/bag.

Storage

It can be stored in a cool, dry place below 30°C and protected against humidity and pressing, since the goods is thermoplastic, storage time should not exceed six months.

Polypropylene Fiber - PP Fiber

Brief Introduction

PP fiber is a polypropylene as the main raw material, adopting unique manufacturing process to make high strength bundle monofilament fiber. Join concrete (or mortar) can effectively control concrete (or mortar) micro-cracks which is caused by plastic shrinkage, temperature changes and other factors, to prevent and inhibit the formation and development of cracks, greatly improved crack resistance of concrete, impact resistance and seismic capacity.

Technical Parameter

Raw Material	Polypropylene
Fiber Type	Monofilament
Melting Point (C Deg.)	160 - 170
Acid & Alkali Resistance	Strong
Water Absorbency	NO
Crack Elongation	≥15%
Elasticity Modulus	≥ 3000Mpa
Fiber Diameter	25~45um
Tensile Strength	560 min.
Density	0.91~0.93 g/cm3
Normal length	3mm, 6mm, 9mm, or as your request

Feature

- Resist to shrink & crack
- Increase seepage resistance
- Increase friction resistance
- Increase freezing & thawing resistance
- Improve tendons protection
- Replace steel net (using in plastering)
- Prevent mortar split and crackle expansion
- Increase impact resistance and peeling resistance



Polypropylene Fiber - PP Fiber

Product Application

* Concrete PP fiber suit for the waterproof layer, floor, inner & outer wall of industrial and civil construction.
* Increase cracking resistance on the surface of industrial workshop, warehouse and parking lot.
* Increase cracking & seepage resistance of the ground in natatorium, swimming pool, pond and ditch.
* Suit for any mortar projects and common concrete projects.
* Highway, bridge and other roads.

Dosage

* For resist the common cracks on surfaces, 0.9kg/m3 fibers to cement mortari is enough.
* For increasing reinforce and seepage resist application 1.8kg/m3 is enough.

Stirring requirement

The proportion of cement, sand and aggregate is no need to be changed. Put cement, aggregate, additive and fiber together, then stir after adding enough water and time for stirring can be prolonged for 2~3 minutes in order to make the compound mix completely. Also it can be mixed with cement and other aggregates in advance, stirring by adding water at worksite before construction.

Packing

Inner is 1.0kg/PE small bag , outer are 20 bags per woven bag.
Quantity/20GP:8Tons Quantity/40GP:16Tons

Storage

To be stored in its closed original packaging, keep cool and dry, avoid humidity.

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致力于纤维素
产品的研发及生产

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