



## RENQIU OTIS CHEMICAL CO., LTD.

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### Company introduction

**Renqiu OTIS Chemical Co., Ltd.** is a professional manufacture of Chemical Auxiliary Agent. Our products are mainly including **CMC( Carboxy Methyl Cellulose), PAC( Polyanionic Cellulose), PAM( Polyacrylamide) and XC(Xanthan Gum).** Our products are mainly used in **Oil drilling, Construction, Water treatment, Mineral dressing and Food additive.** Annual production of various of chemicals reaches about of 7000 tons. Our products have got certificatin of ISO 9001:2008, SGS,and Intertek.

Our company, covering an area of 2000 square meters, is located in Liangzhao industry park, Renqiu city, Hebei Province. Next to High way G0211, making the transportation is very convenient. It cost less than 2 hours to Tianjin port.

Our company follows the principle of Human Orientation, Sincere cooperation and Benifit sharing, which build the brands with high-quality products and occupies more marketing share by efficient quality services. With 10-year experience, our products have been exported to many countries, such as Russia, Iran, Canada, Indonesia, Angola, South Africa and so on. We have got good marketing feedbacks and lots of reorders.

We hope to co-operate with customers from all over the world and build bright future together.

The flowing is some pictures of our factory:

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Factory house:



Production line:



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Ware house:



Packing:



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### Products:

1. Polyacrylamide (PAM): For well drilling, water treatment and concrete additive. Include Anionic pam, Cationic pam, Nonionic pam and phpa.



### 1).Anionic Polyacrylamide

	Appearance	Solid content%	Molecular weight M*104	Hydrolysis degree%
APAM	white powder or particles	≥88	1600-2000	10-50
	Water-insoluble substance%	Cripple single content%	Grain diameter mm	Water dissolves time h
	≤2	≤0.05	<2	≤1h
Remarks:	The above datas are for normal products. We can also do different datas as you request.			

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### 2).Cationic Polyacrylamide

CPAM	Appearance	Solid content%	Molecular weight M*104	Ion degree%
	white powder or particles	≥88	900-1200	10-50
	Water-insoluble substance%	Cripple single content%	Grain diameter mesh	Water dissolves time h
	≤2	≤0.05	20-40	≤1h
<b>Remarks:</b>	The above datas are for normal products. We can also do different datas as you request.			

### 3).Partially hydrolyzed polyacrylamide

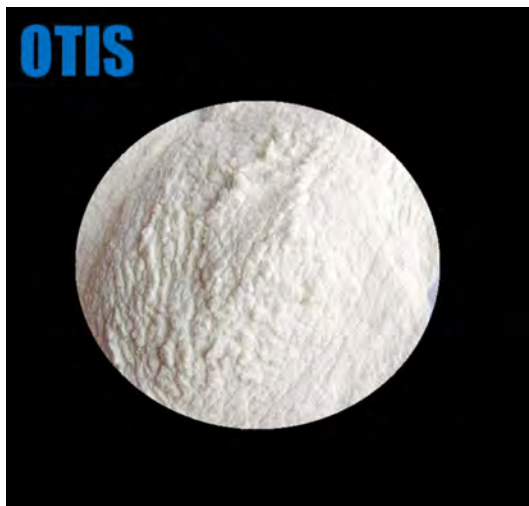
PHPA	Appearance	Solid content%	Molecular weight M*104	Hydrolysis degree%
	white powder or particles	≥88	1000-1200	10-50
	Water-insoluble substance%	Cripple single content%	Grain diameter mm	Water dissolves time h
	≤2	≤0.05	<2	≤1h
	Rheology properties of water solution PHPA 1 lbs/bbl(2.9kg/m3)	Marsh funnel, sec/qt	PV, cP	YP,100 lbs/ft2
	55-65	8-10	10-12	

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### 4).Nonionic Polyacrylamide

NPAM	Appearance	Solid content%	Molecular weight M*104	Hydrolysis degree%
	white powder or particles	≥88	900-1100	2-5
	Water-insoluble substance%	Cripple single content%	Grain diameter mm	Water dissolves time h
	≤2	≤0.05	<2	≤1h
<b>Remarks:</b>	The above datas are for normal products. We can also do different datas as you request.			

### 2. Xanthan gum: API grade and Food grade



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### 1).API Xanthan gum

Item	Specification
Appearance	Off-white or Light Yellow Free Flowing Powder
Starch, guar, or their derivatives	absent
Shearing Ratio	$\geq 6.5$
Moisture Content, % max	13max
Rheology at 25°C, on a 0.2 spring Fann 35 rheometer, API 13A test Method	
600rpm reading	76min
300rpm reading	55min
6rpm reading	18min
3rpm reading	16min
Brookfield LV, 1.5r/min	1950min

### 2) .80 mesh Xanthan gum

Item	Specification
Appearance	Off-white or Light Yellow Free Flowing Powder
Thru 80mesh, %	$\geq 92.0$
Viscosity 1% XG in 1% KCL solution, mPa.s	1200-1700
Shearing Ratio	$\geq 6.5$
PH (1% XG solution)	6.0-8.0
Loss on Drying, %	$\leq 13.0$
Ash, %	$\leq 13.0$
Pyruvic Acid, %	$\geq 1.5$
Total Nitrogen, %	$\leq 1.5$
Pb, mg/kg	$\leq 2.0$
Total Plate Count, CFU/g	$\leq 5000$
Yeasts & Moulds, CFU/g	$\leq 500$
Coliforms, MPN/g	$\leq 3$
Salmonella	0/25g



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### 3).200 mesh Xanthan gum

Item	Specification
Appearance	Off-white or Light Yellow Free Flowing Powder
Thru 80mesh, %	≥92.0
Viscosity 1% XG in 1% KCL solution, mPa.s	1200-1700
Shearing Ratio	≥ 6.5
PH (1% XG solution)	6.0-8.0
Loss on Drying, %	≤13.0
Ash, %	≤13.0
Pyruvic Acid, %	≥ 1.5
Total Nitrogen, %	≤ 1.5
Pb,mg/kg	≤ 2.0
Total Plate Count, CFU/g	≤ 5000
Yeasts & Moulds, CFU/g	≤ 500
Coliforms, MPN/g	≤ 3
Salmonella	0/25g

### 3. Carboxymelthy Cellulose(CMC)



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### 1) .CMC-HV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 70\%$
Moisture Content, % max	$\leq 10\%$
Dial reading at 600rpm in Distilled water, Fann 35 viscometer	min 30
Dial reading at 600rpm in 4% Salt water, Fann 35 viscometer	min 30
Dial reading at 600rpm in Saturated Water, Fann 35 viscometer	min 30

### 2) .CMC-LV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 70\%$
Moisture Content, % max	$\leq 10\%$
Dial reading at 600rpm in Distilled water, Fann 35 viscometer	$\leq 90$
Fluid Volume ml	$\leq 10.00$

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### 4. Polyanionic Cellulose (PAC): for drilling and other industry



#### 1) .95% PAC-HV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 95\%$
Moisture Content, % max	$\leq 10\%$
Apparent viscosity(mpa.s)	$\geq 50$
Filtrate Volume(ml)	$\leq 23$

#### 2) .60% PAC-HV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 60\%$
Degree of Substitution	$\geq 0.90$
Moisture Content, % max	$\leq 10\%$
Apparent viscosity(mpa.s)	$\geq 50$
Filtrate Volume(ml)	$\leq 23$

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### 3) 95% PAC-LV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 95\%$
Degree of Substitution	$\geq 0.90$
Moisture Content, % max	$\leq 10\%$
Apparent viscosity(mpa.s)	$\leq 40$
Fluid Volume ml	$\leq 16.00$

### 4) 65% PAC-LV

Item	Specification
Appearance	Free flowing white powder
Starch, guar, or their derivatives	absent
Purity	$\geq 65\%$
Degree of Substitution	$\geq 0.80$
Moisture Content, % max	$\leq 10\%$
Apparent viscosity(mpa.s)	$\leq 20$
Fluid Volume ml	$\leq 16.00$

Remarks: We can make different purities of PAC-LV and PAC-HV according to your request.

We also have Detergent grade CMC and other industry grade CMC, if you need any of it, feel free to write a inquiry.

You are welcome to have a visit at any time!

No matter what questions you have about our company, feel free to let us know.

Email: [sale04@otischem.com](mailto:sale04@otischem.com)  
[ma-magement@otischem.com](mailto:ma-magement@otischem.com)

Tel: +86-010-83687592

Website: <http://www.otischem.net/>  
<https://renquiotis.en.alibaba.com/>