



CLEAN WATER CLEAN WORLD  
清洁水源 清洁世界

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**BLUWAT**

蓝波化学品有限公司  
BLUWAT CHEMICALS CO.,LTD

# 公司简介

**蓝波化学有限公司**由从事环保水处理多年的专业人士成立，有多年的水处理化学品研究、生产、销售和服务的经验。我们专业为工业污水处理厂和城市生活污水处理厂提供药剂和服务，以我们高品质的化学品和丰富的应用经验，不但为客户提供高效低价的药剂，同时为客户的污水处理提供全面的咨询和服务，为客户解决污水处理的后顾之忧并争取为客户降低运行费用，追求我们和客户的共同发展。

本公司与欧洲合作伙伴在国内建立合资工厂，专业生产BWD-01脱色絮凝剂用于处理印染废水等有色废水，利用欧洲公司的先进技术和管理经验生产高品质的产品，现我们工厂是国内和国际规模最大专业污水用脱色剂生产商，年销售量超过10000吨，其中60%以上出口国外市场。本公司的产品全面符合在欧洲国家使用的要求。

本公司同时投资建立聚合氯化铝生产工厂，利用先进的喷雾干燥工艺，生产高品质的产品满足国内外市场的需求。

本公司主要产品大部分销往国外市场，凭借具有竞争力的产品和高效率的售前和售后服务，与世界上超过30个国家的化学品公司或环保公司有着良好的合作，并在东南亚国家、中南美洲、欧洲等几个重要的市场有本公司的独家代理商，为客户提供更全面和及时的服务。

我公司为客户提供多种水处理用絮凝剂和混凝剂，希望与客户一起共同发展。

Bluwat Chemicals is a professional supplier of water treatment chemicals and oil field chemicals in China. We provide our customers of both traditional and innovative products to ensure optimum control in a wide variety of applications including the treatment of drinking water, wastewater, process water, and also including oil/gas drilling and oil production.

Our core products are inorganic coagulants and organic flocculants for the treatment of water and polymer, PHPA/Polyacrylamide for oil/gas drilling and EOR (enhanced oil recovery). We also supply PAC and CMC for drilling application.

We built our own plants for our products to supply competitive products to our customers in all over the world.

Our development work emphasizes working together with our customers to have higher performance and lower dosage on chemicals.

Our main business is for foreign market, we provide competitive products and efficient operation according to requirements from our customers, we also provide professional application support.

We are exporting our chemicals to more than 40 countries in the world, including Europe, USA, South and Central America, South-East Asia, Middle East, CIS and etc.

We have good cooperation with many chemicals companies and water treatment companies on our products in different market, and we have had good cooperation partners as agent in some important market.



This product is a quaternary cationic polymer which is specialized product to treat effluent for color removal, flocculating and COD decreasing.

### APPLICATION FIELD

1. It is mainly used for color removal treatment for high-colority waste water from dyestuffs plants. It is suitable to treat waste water with activated, acidic and disperse dyestuffs.
2. It can also be used to treat waste water from textile industry and dye houses, pigment industry, printing ink industry and paper industry.
3. It also can be used in the production process of paper & pulp as retention agent.

### SPECIFICATIONS

1. Appearance: light-color, sticky liquid
2. Viscosity: 50–300 m Pa.s (20°C)
3. Solid content: 50% min
4. pH, 30% solution: 2–5
5. Specific gravity : 1.1–1.3 (25°C)

### APPLICATION METHODS (see application case)

1. The product shall be diluted with 10–40 times water and then dosed into the waste water directly. After being mixed for several minutes, it can be precipitated or air-floated to become clear water.
2. The pH value of the waste water should be adjusted to 7–10 for better result.
3. When the colority and COD<sub>Cr</sub> are relatively high, it can be used with the help of polyaluminum chloride, but not mixed together. In this way, the treatment cost can be lowered. Whether polyaluminum chloride is used beforewards or afterwards depends on the flocculation test and the treatment process.

### PACKAGE AND STORAGE

1. It is harmless, no-flammable and non-explosive, it can be stored at room temperature, it can not be placed in the sun.
2. It is packaged in plastic drums with each containing 25kg, 250kg and 1250kg.
3. Storage temperature: 10–30°C.

### • 产品说明:

本产品专业用于有色废水的处理，是集脱色、絮凝、去除COD等多种功能于一身的型阳离子高分子化合物。

### • 应用范围:

- 1) 主要用于染料厂高色度废水的脱色处理，能适用于活性、酸性和分散染料等废水处理。
- 2) 也可以用于纺织和印染的废水处理和颜料、油墨、造纸等工业废水的处理。
- 3) 本产品还可以作为造纸用补强剂、施胶剂和电荷中和剂。

### • 质量指标:

- 1) 外观：浅色或无色，粘稠液体。
- 2) 含固量：> 50%
- 3) 粘度（20℃）：50-300 cps
- 4) pH值（30%水溶液）：2-5

### • 使用方法: (请参考我们的应用案例)

- 1) 用10-40倍的水稀释本产品，然后直接加入水中，搅拌数分钟后进行沉降或气浮，即可得到脱色后的清液。
- 2) 废水的pH值调整到7-10可提高处理效果。
- 3) 当废水的色度、CODCr较高时，可以和聚合氯化铝搭配使用，但不能混合使用。这样可以降低处理成本，先加还是后加聚合氯化铝，应根据试验和处理工艺而定。

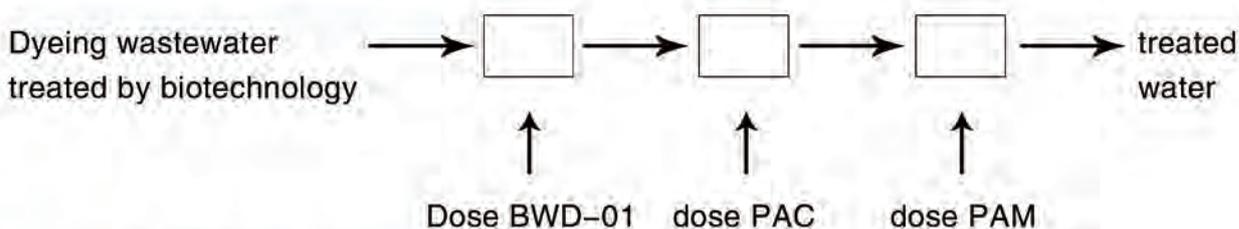
### • 贮存和包装:

- 1) 本产品为非易燃，易爆物品，宜在室温下贮存，勿在烈日下曝晒。
- 2) 本产品用塑料桶包装，每桶25公斤，50公斤，250公斤，也有1000公斤IBC包装。

## 1. WASTEWATER FOR TREATMENT

Dyeing wastewater with activated color and dispersing color, it is difficult to be treated by other water treatment products.

## 2. TREATING PROCESS



## 3. APPLICATION DATA

☆ Dosage of BWD-01: 40-100 PPM

Dosage of PAC: 150 PPM

Dosage of PAM: 1 PPM

☆ Waster water inlet

COD: 600 mg/l

Color: 250-300 times

☆ Wastewater treated(outlet)

COD: about 100mg/l

Color: 40-50 times

## 4. RESULT

a) BWD-01 has good color removal and especially to red color, it can treat the wastewater to reach Chinese Standard.

b) In the practice application, apply with PAC and PAM together, it can get good result and it is economic.

★ Chinese color unit is time, it means how many times the water diluted by distilled water to reach no color.

★ PAC - poly-aluminum chloride

★ PAM - polyacrylamide anionic type

## 1. 废水:

含有活性染料和分散性染料的印染废水，其它废水处理方法很难处理；水量为5000吨/天。

## 2. 处理工艺过程:

经过生物处理的印染废水 → 投加高效脱色絮凝剂 → 投加聚合氯化铝 (PAC)  
→ 投加聚丙烯酰胺 (PAM) → 气浮或沉淀 → 出水

## 3. 应用数据:

脱色剂投加量: 40-100 PPM

PAC投加量: 150 PPM

PAM投加量: 1 PPM

废水进水

COD: 600 mg/l

Color: 250-300倍

废水出水

COD: 约 100mg/l

Color: 40-50 倍

## 4. 结果:

- 脱色剂对颜色的去除有很好的效果，尤其对红色，废水处理后可达到国家排放标准。
- 在实际应用中为了降低处理成本，一般根据废水的污染程度，可与PAC和PAM联合使用。

This product is high-effective inorganic polymer coagulant. It is widely applied in water purification, wastewater treatment, precision cast, paper production, pharmaceutical industry and daily chemicals.

### PROPERTIES

1. Its dosage lower than aluminum sulfate (based on  $Al_2O_3$ ) and water treatment cost is lower than other inorganic flocculants.
2. The product can cause quick formation of flocs, big flocs formation and rapid precipitation. Its treatment capacity is 1.3–3.0 times of other inorganic flocculants.
3. It enjoys wide-range adaptability for different-temperature source water and a good solubility.
4. It is slightly corrosive and easy for operation.
5. The liquid product is suitable for automatic dosing. Furthermore, it will not block pipes over long-time usage.

### GRADES

PAC-01, White powder, spray dryer type, for drinking water treatment or paper production, raw material is  $Al(OH)_3$ .

PAC-02, Yellow powder, spray dryer type, for drinking water treatment or wastewater treatment, raw material is  $Al(OH)_3$ .

PAC-031, Yellow powder, spray dryer type, for drinking water treatment or wastewater treatment, raw material is  $Ca(AlO_3)_2$  and bauxite.

PAC-03, Yellow powder, drum dryer type, for drinking water treatment or wastewater treatment, raw material is  $Ca(AlO_3)_2$  and bauxite.

### APPLICATION METHODS

1. The liquid product can be dosed directly or dosed after dilution. As for the solid product, dilution is necessary before being dosed. Water amount for dilution shall be determined based on the amount of the chemical to be dosed and the quality of water to be treated. Dilution proportion for solid product is 2%–20%, and for liquid product, 5%–50% (based on weight percentage).
2. The dosage of the liquid product is 3–40g/MT and the dosage of the solid product is 1–15g/MT. The specific dosage is based on the flocculation test and on the trial.
3. Its acidity is lower than other inorganic coagulants.

### PACKAGE AND STORAGE

1. The solid product is packaged in 25kg polypropylene woven bags with inner plastic bags.
2. The liquid product can be stored for one year without losing its effect, while the solid product, for two years. The product should be stored in a dry and ventilative room, but the effect will not be affected even if it gets wet.

## • 产品说明:

聚合氯化铝是一种新型高效无机高分子混凝剂，化学通式为： $[Al_2(OH)_nCl_{6-n}]_m$ 。广泛应用于水的净化、废水处理、精密铸造、造纸、医药工业、日用化学品中，其优良的技术性能使它在某些领域迅速取代了硫酸铝等传统的水处理药剂。

## • 产品性能:

- 1、能快速形成絮凝体，且矾花大、沉速快，比其它无机混凝剂处理能力提高1.0-3.0倍。
- 2、适应各种温度的源水，溶解性好。
- 3、产品腐蚀性小，操作便利。
- 4、液体产品适合自动化投加，长期使用不堵管。

## • 质量指标:

PAC-01, 白色, 喷雾干燥, 用于饮用水处理和造纸生产

PAC-02, 黄色, 喷雾干燥, 用于饮用水处理和废水处理

PAC-031, 黄色, 喷雾干燥, 用于废水处理

PAC-03, 黄色, 滚筒干燥, 用于废水处理

## • 使用方法:

- 1、液体产品可以直接投加，也可以用水稀释后投加。固体产品应加水溶解后投加，加水量可按药剂投加量和待处理水质来决定，稀释比例为：固体产品2%-20%，液体产品5%-50%（以重量百分比）。
- 2、药剂投加量为：液体产品为3-40克/吨，固体产品为1-15克/吨，具体由用户根据搅拌试验和生产性试验来决定。
- 3、本产品的酸性低于其它无机混凝剂。

## • 贮存和包装:

- 1、液体产品本公司有专用槽罐车负责送货。固体产品用聚丙烯编织袋包装，内衬塑料袋，每袋25公斤。
- 2、液体产品有效贮存期一年，固体产品有效贮存期二年，应放在通风干燥处，但受潮后不影响使用效果。

Our anionic polyacrylamide is manufactured with ultra high molecular weight specially for EOR (Enhanced Oil Recovery) in oil field under new high-tech technology.

## APPLICATION

This process has been used for several years in assisting oil field to increase the efficiency of oil recovery. By the addition of one ton of polymer typically 150 tons of crude oil can be gained therefore providing great benefits to the user. By introducing viscous polymer solutions to the flood the efficiency of the volumetric sweep is increased, channeling and breakthrough is decreased thereby having the overall effect of increasing the oil recovered.

Our polymer suits many different conditions experienced by oilfield operators in polymer flooding so that no matter what the temperature, saline conditions, permeability or oil viscosity are, we have the correct product for the application. The standard products can be either directly injected into the oil stratum or alternatively can be combined with a cross-linking agent and then injected into the oil stratum. These products can be used at oilfields with an oil stratum temperature lower than 60° C and total dissolved solids (TDS) lower than 6,000ppm.

## SPECIFICATIONS

Specifications	Data Standard
Appearance	White granulated powder
Molecular Weight, carbon units	8-20 × 10 <sup>6</sup>
Solid content, % min	89
Anionic degree, %	16-35
Dissolving time, hrs, max	2
Intrinsic viscosity, dl/g	10-25
Granule size 1.70mm, %, min	0.0
Granule size 0.25mm, %, min	10.0

## POLYMER MIXING

To obtain homogeneous solution, efficient dispersion is necessary. The most convenient method of dispersing these products is with a polymer eductor or a commercially available dry powder feeder unit. Solution should be made up at 0.1-0.3% solid. Make-up water temperature should be between 10°C and 40°C for optimum product performance.

Following dispersion into agitated water, stirring should continue for about an hour to ensure complete dissolution. Stirring maybe carried out by propeller type stirrer with a speed of 200-500 rpm.

It is recommended to have both a stock make-up tank and a solution holding tank for dosage into the system. The above recommended anionic solution concentration are stable for up to one week.

Aluminum, zinc, copper, or iron should be avoided in make-up system.

## SHIPPING, HANDLING AND STORAGE

PHPA is packed in 25kg Kraft paper bag with inner plastic bag.

Store in cool room.

Do not contact air directly for long time, the product can absorb damp to become agglomeration and difficult for dissolving.

The shelf life is two years

## HEALTH AND SAFETY

PHPA is not dangerous chemicals, please read MSDS for detailed information. The product will be very slippery on ground after contacting water, any spill of product should be cleaned with water completely.

PHPA is high molecular weight polymer with a moderate anionic charge for drilling mud additive. It is can be used in both industrial and oil field drilling application and it is usable in both fresh water and brines. It can be used in high temperature.

#### APPLICATION

- ☆ Shale stabilization
- ☆ Viscosifier
- ☆ Friction reduction
- ☆ Fluid loss control
- ☆ Lubrication

#### SPECIFICATIONS

Appearance: off white powder

Degree of charge, %: 15 – 45

Molecular weight, million: 5 – 20

Solid content, %: 89 min

#### POLYMER MIXING

To obtain homogeneous solution, efficient dispersion is necessary. The most convenient method of dispersing these products is with a polymer eductor or a commercially available dry powder feeder unit. Solution should be made up at 0.1–0.3% solid. Make-up water temperature should be between 10°C and 40°C for optimum product performance. Following dispersion into agitated water, stirring should continue for about an hour to ensure complete dissolution. Stirring maybe carried out by propeller type stirrer with a speed of 200–500 rpm. It is recommended to have both a stock make-up tank and a solution holding tank for dosage into the system. The above recommended anionic solution concentration are stable for up to one week. Aluminum, zinc, copper, or iron should be avoided in make-up system.

#### SHIPPING,HANDLING AND STORAGE

PHPA is packed in 25kg Kraft paper bag with inner plastic bag. Store in cool room. Do not contact air directly for long time, the product can absorb damp to become agglomeration and difficult for dissolving. The shelf life is two years Health and Safety PHPA is not dangerous chemicals, please read MSDS for detailed information. The product will be very slippery on ground after contacting water, any spill of product should be cleaned with water completely.

Polyacrylamide is, simply called PAM, a water- soluble high polymer and widely used in petroleum, paper-making, metallurgical, textile, chemical and environment protection fields. There are three categories of anionic, cationic and non-ionic type. Different application need different grade product.

#### APPLICATION INTRODUCTION

For flocculation, it can be used for recovering solid substance treating industrial effluent, domestic sewage and purifying water, assisting filtering, treatment of coal, mining, and well drilling slurry material and etc.

For viscosity thicker, it can be used for oil/gas drilling additives and water injection process in EOR (Enhanced Oil Recover).

For paper mills, it can be used for enhance staying rate of filling material, speed size filterability and white water sedimentation in the paper and then coagulate to increase the strength of paper.

PAM can also be used in textile industries.

#### SOLUTION MAKE UP

To obtain homogeneous solution, efficient dispersion is necessary. The most convenient method of dispersing these products is with a polymer eductor or a commercially available dry powder feeder unit. Solution should be made up at 0.1-0.3% solid. Make-up water temperature should be between 10°C and 40°C for optimum product performance. Following dispersion into agitated water, stirring should continue for about an hour to ensure complete dissolution. Stirring maybe carried out by propeller type stirrer with a speed of 200-500 rpm. It is recommended to have both a stock make-up tank and a solution holding tank for dosage into the system. The above recommended anionic solution concentration are stable for up to one week. Aluminum, zinc, copper, or iron should be avoided in make-up system.

#### HEALTH AND SAFETY

PAM is not dangerous chemicals, please read MSDS for detailed information. The product will be very slippery on ground after contacting water, any spill of product should be cleaned with water completely.

For detailed specifications and application, please contact with us for more information.

## • 产品说明:

本产品为水溶性高分子聚合物。不溶于大多数有机溶剂，具有良好的絮凝性，降低液体之间的摩擦阻力。

## • 应用范围:

☆主要用于污泥脱水、固液分离和洗煤、选矿及造纸废水的回收。可用于工业废水、城市生活污水处理。

☆用于造纸工业，可提高纸张的干湿强度，提高细小纤维及填料的保留率。

☆可用作油田、地质勘探钻进用泥浆材料的添加剂。

## • 质量指标:

☆外观:白色细砂状粉末或无色透明胶体。

☆阳离子型 阳离子度0-100% 平均分子量400-1000万

☆阴离子型 阴离子度0-100% 平均分子量1500-2000万

☆非离子型 平均分子量800-1500

## • 使用方法:

本产品配成0.1%浓度的水溶液，以使用中性不含盐类的水为宜。溶解时，将本产品均匀撒入搅拌的水中，适当加温（ $<60^{\circ}\text{C}$ ）可加速溶解。通过小试，确定本产品的最佳投加量，调整待处理水的最佳pH值。贮存和包装：固体产品用聚丙烯编织袋包装，内衬塑料袋，每袋25kg；胶状体用纤维桶包装，内衬塑料袋，每桶50kg或200kg。本产品有吸湿性，要密封存放在阴凉干燥处，温度要低于 $35^{\circ}\text{C}$ 。固体产品避免撒在地上，以防止产品吸湿后使地变滑。

## PRODUCT DESCRIPTION

Polyamine is used for water treatment and paper mills.

Polyamine is liquid cationic polymers of different molecular weight which work efficiently as primary coagulants and charge neutralization agents in liquid–solid separation processes in a wide variety of industries.

Features:

- 1) Appearance: Slight yellow to yellow liquid
- 2) Viscosity: Very low to high
- 3) Solid content: 50%
- 4) PH value: 4 – 7
- 5) Ionic nature: Cationic

## APPLICATION METHODS

When used alone, it should be diluted to the concentration of 0.5%–0.05% (based on solid content). When used to treat different source water or waste water, the dosage is based on the turbidity and the concentration of the water. The most economical dosage is based on the trial. The dosing spot and the mixing velocity should be carefully decided to guarantee that the chemical can be mixed evenly with the other chemicals in the water and the flocs can not be broken. It is better to dose the product continuously.

## PACKAGE AND STORAGE

This product is packaged in plastic drums with each drum containing 200kg or 1000kg. This product should be sealed and stored in a dry and cool place. In this way, it can be stored for two years without losing its effect. If there appears stratification after the long–term storage, it can be mixed before being used.

## SAFETY AND HEALTH

It is harmless, no–flammable and non–explosive. It is not dangerous chemicals. Please read MSDS for application.

This product (technically named Polydimethyl–Diskelen–Ammonium Chloride) is cationic polymer and it can be completely dissolved in water.

#### PROPERTIES

The polymer body contains strong cationic group radical and activated–adsorbent group radical which can destabilize and flocculate the suspended solids and the negative–charged water soluble matters in the waste water through electro–neutralization and bridging adsorption. It is very effective in flocculating, decolouring, killing algae and removing organics. The product enjoys small dosage but can cause big flocs, rapid precipitation and low turbidity residue, and it can also produce small amount of sludge. It is adaptable to wide range of pH value, between 0.5 and 1.4. This product is smellless, tasteless and harmless. It can be widely used to treat source water and sewage water.

#### SPECIFICATIONS

1. Appearance: colorless, transparent colloid
2. Molecular weight:  $4 \times 10^5$  min.
3. Solid content: 40%
4. pH, 30% solution: 3–6
5. Ionic nature: cationic

#### APPLICATION METHODS

When used alone, it should be diluted to the concentration of 0.5%–0.05% (based on solid content). When used to treat different source water or waste water, the dosage is based on the turbidity and the concentration of the water. The most economical dosage is based on the trial. The dosing spot and the mixing velocity should be carefully decided to guarantee that the chemical can be mixed evenly with the other chemicals in the water and the flocs can not be broken. It is better to dose the product continuously.

#### PACKAGE AND STORAGE

This product is packaged in plastic drums with each drum containing 125kg, 200kg or 1000kg. This product should be sealed and stored in a dry and cool place. In this way, it can be stored for two years without losing its effect. If there appears stratification after the long–term storage, it can be mixed before being used.

#### SAFETY AND HEALTH

It is harmless, no–flammable and non–explosive. It is not dangerous chemicals. Please read MSDS for application.

### APPLICATION OF BWP-01

This product is quaternary ammonium salt and cationic compound, it is used as fixing agent for paper production. It can prevent anionic impurity, improve efficiency of chemicals and reduce pollution of production process.

### PROPERTIES

1.The product is mainly used for the coated broke system to improve the paper quality in paper-making process.

2.It is also used for the de-inking system and takes de-inking, dispersing and fixing effects.

3.It is used as a color fixing agent for colored paper.

### SPECIFICATIONS

Item	Index
Appearance	colorless or light-color sticky liquid
Dynamic viscosity (cps,20°C)	50-350
pH value	2.0-5.0
Solid content %	48-52
Density (g/cm <sup>3</sup> 20°C)	1.21-1.25

### 产品作用

本产品为季铵型阳离子高分子化合物，作为造纸用固定剂。

阻止阴离子杂质

提高化学品效能

防止工艺污染

### 应用范围

- 1、本产品主要用于造纸涂布损纸系统，提高纸品质量。
- 2、也可以用于造纸脱墨系统，起脱墨、分散、固着作用。
- 4、用于有色纸的固色。

### 产品指标

外观	无色或浅色粘稠液体
动力粘度(cps,20℃)	50 ~ 350
pH值	2.0 ~ 5.0
固含量 %	48 ~ 52
密度g/cm <sup>3</sup> (20℃)	1.21-1.25

### 产品应用

本公司有专业应用工程师到客户工厂提供技术支持和服务。