



北京博泰至淳生物科技有限公司



TECHNICAL MANUAL

北京博泰至淳生物科技有限公司 Beijing Bio-Purest Tech.Co.,Ltd



企业简介	01-02	聚丙烯酰胺	07-08
Company Prorile		Polyacrylamide	
	6	阴离子聚丙烯酰胺 Anionic PAM	09-40
资质与荣誉	01-02	阳离子聚丙烯酰胺 Cationic PAM	41-46
Qualification & Honor	XX	非离子聚丙烯酰胺 Nonionic PAM	47-48
科技研发——————	-03-04	聚合氯化铝	49-52
Research & Development	X Pio Pu	Polyaluminium Chloride	
业务范围 ————————————————————————————————————	-05-06	聚合硫酸铁	53-56
Business Scope		Polyferric Sulfate	

关于博泰至淳

北京博泰至淳生物科技有限公司是专业的药剂综合服务商,集研发、生产、销售、技术服务及咨询为一体,能为客户提供优质高效的系列产品、全面系统的定制化解决方案以及精准专业的技术咨询等综合服务。

博泰至淳是由科班博士团队发起创立的国家高新技术企业,被评为北京市专精特新中小企业和创新型中小企业,荣获北京市知识产权试点单位认证及中国留学人员创业园最具成长性创业企业等荣誉。是北京博汇特环保科技股份有限公司的控股子公司。

博泰至淳以成为最具规模的生态友好环境治理药剂引领者为愿景,致力于通过生态的方法解决环境污染问题,为企业提供经济高效且安全绿色的药剂产品,以及提供定制化方案和技术服务,努力成为专项能力突出及拥有社会责任感的公司。



Bio-Purest (BPT)

Beijing Bio-Purest Technology Co., Ltd. (BPT) is a professional agents, technology, and consulting service provider. It integrates research and development (R & D), production, sales and service, and can provide customers with high-quality and efficient series products, comprehensive system customized solutions, precise and professional technical consulting, and other services.

BPT is a national high-tech enterprise leading by professional research team. It has been rated as Beijing specialized, special and new small and medium enterprises and innovative small and medium enterprises, and won the Beijing Intellectual Property pilot unit certification and the most promising entrepreneurial enterprise in China Overseas Students Pioneer Park. It is the holding subsidiary of Beijing BHT Environmental Protection Technology Co., Ltd.

BPT aims to become the largest-scale eco-friendly and environmentally friendly chemical company. It is committed to solving environmental pollution problems with natural methods, providing water treatment enterprises with cost-effective, safe and green chemical products, customized solutions and technical services. BPT strives to become a company with outstanding special capabilities and a sense of social responsibility.



科技研发

博泰至淳一直坚持走专业化发展道路,注重技术研发的资金投入与能力建设,并先后与美国密歇根州立大学、清华大学、北京科技大学以及中国矿业大学(北京)等科研机构建立了"产-学研-用"合作关系,目前已经实现产业化和规模化,包括水处理化学品、造纸化学品、选矿化学品、油田专用化学品和社会化学品等。







Research and Development

BPT focuses on professional development, capital in vestment and capacity building of technology research and development. It has established a cooperative relationship which combines the efforts of enterprises, universities, research institutions and consumers with scientific research institutions such as Michigan State University, Tsinghua University, Beijing University of Science and Technology and Beijing University of Technology. At present, it has realized industrialization and scale, including water treatment chemicals, papermaking chemicals, mineral dressing chemicals, specialty chemicals in the oil field and social chemicals.







愿景

- ◆ 最具规模的生态友好**药剂引领者**
- ◆ 专业水处理化学品及精准投加系统**综合技术服务商**
- ◆ 国际领先的驱油用化学**助剂供应商**
- ◆ 各行业化学品生产及服务**全领域覆盖**

产品系列



聚丙烯酰胺

英文缩写PAM

应用最广泛









聚合氯化铝

英文缩写PAC 广泛应用于水处理

聚合硫酸铁 应用于水处理

应用行业

- ▲ 水处理应用
- ◆ 造纸应用
- ◆ 采矿应用
- ◆ 石油工业应用



Vision

- ◆ The largest scale of eco-friendly pharmaceutical leaders
- Professional water treatment chemicals and precision feeding system integrated
- ◆ Technology service provider supplier of chemical auxiliaries for oil flooding
- Chemical production and services of various industries cover the whole field

Product Line











Polyacrylamide

The abbreviation is PAM

Most widely used

Polyaluminium Chloride

The abbreviation is PAC
Widely used in water treatment

Polyferric Sulfate

Application in water treatment

Application Industry

- Water treatment application
- Papermaking application
- Mining application
- ♦ Petroleum industry application



聚丙烯酰胺

什么是聚丙烯酰胺?





聚丙烯酰胺英文缩写PAM,是由丙烯酰胺均聚或与其他单体共聚而得到的水溶性聚合物,是应用最广泛的水溶性高分子之一。公司拥有阴离子、阳离子、非离子等系列产品。广泛应用于石油开采,水处理,造纸,纺织印染,洗煤选矿、建材、医药等行业。

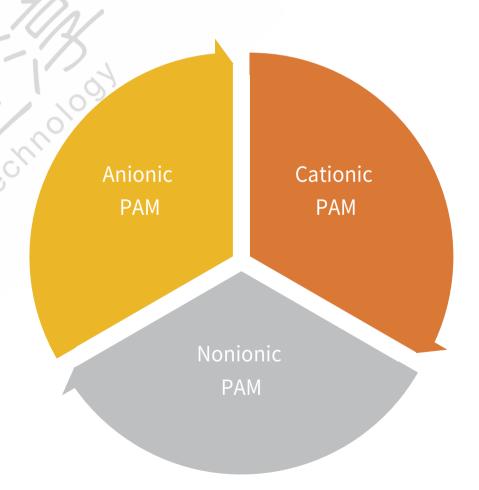
Polyacrylamide

What is Polyacrylamide?



Polyacrylamide, also called PAM, is a water-soluble polymer resulting from acrylamide homopolymerization or copolymerization with other monomers. The company has anion, cationic, non - ion and other products. It is one of the most widely used water-soluble polymers for oil exploitation, water treatment, paper making, textile printing and dyeing, ore dressing, manufacturer of building materials, and medicine.





1.阴离子聚丙烯酰胺

定义:

本产品是由丙烯酰胺和丙烯酸盐共聚而成的超高分子量聚合物,分子量高达3000万以上,有极强的吸附架桥效力,可根据用户不同的用途和对产品性能的要求选用不同分子量。

用途:

工业废水处理;饮用水处理;淀粉厂和酒精厂流失的淀粉及酒糟回收;造纸助剂;三次采油驱油剂;调剖堵水剂;减阻剂;钻井液添加剂;压裂液添加剂。

技术指标:

外观	固含量(%)	分子量(百万)	离子度(%)	溶解时间 (min)
白色颗粒	≥ 88	12-30	低中高	≤ 60





1. Anionic PAM

Definition:

The product is an ultra-high molecular weight polymer made from the copolymerization of acrylamide and acrylate. Its molecular weight is as high as 30 million or more, and it has extremely strong adsorption and bridging efficiency. Different molecular weights can be selected depending on the user's different uses and requirements for product performance.

Usage:

Industrial wastewater treatment; Drinking water treatment; Recycling the lost starch and alcohol of the starch and alcohol factories; Paper making additives; Tertiary oildisplacement agent; Profile adjusting and water plugging agent; Drag reducer; Drilling fluid additives; Fracturing fluid additives.

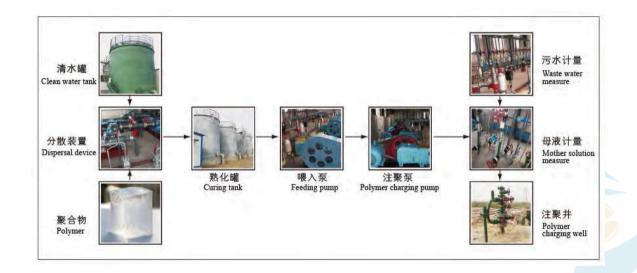
Technical Index:

Appearance	Solid content (%)	Molecular Weight (million)	Degree of Ion (%)	Dissolving Time (min)
White Powder	≥ 88	12-30	Low Medium High	≤ 60



应用行业1:石油工业应用

公司是采油用聚丙烯酰胺及表面活性剂供应商,针对国内各大油田矿藏条件,开发 出适用于不同地层矿化度、温度的CA系列驱油助剂,此外聚丙烯酰胺系列产品可用于油 田钻井泥浆、调剖堵水、酸化压裂等领域。







Application industry 1: Application to oil industry

BPT is a supplier of polyacrylamide and surfactant for oil production. According to the mineral conditions of various domestic oil fields, the company has developed CA series of oil displacement additives suitable for different formation salinity and temperature. In addition, polyacrylamide series products can be widely applied to tertiary recovery of oil field, drilling mud, profile control and water shut-off, and fracturing with acidifiation.











钻井泥浆用聚合物

应用领域

泥浆又称钻井液、钻液,是石油行业、矿山行业、非开挖行业、地质行业等钻探、取 芯过程中各种功能循环液体的总称。聚丙烯酰胺可以保持钻井液中的固相颗粒不分散的絮 凝状态,便于机械固控设备将其清除,提高钻井速度,减少复杂情况产生,降低钻井成本。

产品特性

产品具有高效絮凝性,使钻屑始终保持不分散状态; 其水溶液粘度高、携带岩屑能力强、抗剪切稀释性好

产品指标

	项目	指标
	外观	白色颗粒或粉末
米 <u>立</u>	小于0.15mm 颗粒含量,%	≤5.0
度	大于1.0mm 颗粒含量,%	≤5.0
	固含量,%	≥88.0
	离子度	中
	分子量,104	≥2500
	残单含量,%	≤0.1
	马氏漏斗时间,s	≥180

包装运输储存

产品使用纸塑复合袋包装,每袋g2或5k根据用户需要确定,保质期2年。

Polymer for drilling mud

Application field

Mud, also known as drilling fluid and drilling fluid, is the general name of various functional circulating liquids in the drilling and coring process of petroleum industry, mining industry, trenchlessindustry, geological industry, etc. Polyacrylamide can keep the solid particles in drilling fluid innon-dispersed flocculation state, easy to mechanical solid control equipment to remove it, improve drilling speed, reduce complex conditions, reduce drilling costs.

Product characteristics

The product has high efficiency flocculation, so that the cuttings always keep the state of non-dispersion; its aqueous solution has high viscosity, strong cuttings carrying capacity and good shear dilution resistance.

Product index

Item		Index
	Appearance	White particles or powder
Particle	< 0.15mm Particle Content,%	≤5.0
Size	> 1.0mm Particle Content,%	≤5.0
	Solid Content,%	≥88.0
	lonicity	Middle
	Molecular Weight,10 ⁴	≥2500
	Residue Content,%	≪0.1
	Markov Funnel Time,s	≥180

14

Packaging, storage and transportation

The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to the needs of users, with a shelf life of 2 years.

驱油用聚丙烯酰胺

应用领域

聚丙烯酰胺在石油开采行业中作为驱油剂,增加注入水粘度,改善油水流度比,扩大波及体积,提高原油采收率。聚丙烯酰胺既能单独使用,也能与碱、表面活性剂等配伍使用,组成二元或三元复合驱。聚合物驱、二元和三元复合驱是油田水驱后期进一步控制采油成本,提高采收率的主要措施。

产品特性

本品是根据驱油机理和油藏特点,通过特殊分子设计开发的三次采油产品。产品增粘效果显著,抗高温、高盐性能好,耐剪切,具有良好的热稳定性,能有效增加驱替液粘度,提高波及系数,增大波及体积,提高原油采收率。

产品指标

1.常规驱油聚合物(表观粘度测试温度60℃,测试浓度1500 mg/l,测试矿化度6000mg/l)

项目		指标
	外观	白色颗粒或粉末
米立	小于0.15mm颗粒含量,%	≤5.0
度	大于1.0mm颗粒含量,%	≤5.0
	固含量,%	≥89.0
	分子量,104	1600~2500
	滤过比	≤2.0
	特性粘数,ml/g	≥2000~2400
	表观粘度,mPa·s	10~14

2.油田 II 型聚合物(测试温度75℃,测试浓度1500 mg/l,测试矿化度19334 mg/l)

	项目	指标
	外观	白色颗粒或粉末
粒度	小于0.15mm颗粒含量,%	≤5.0
松皮	大于1.0mm颗粒含量,%	≤5.0
	固含量,%	≥89.0
	分子量,104	≥1800
	滤过比,	≤2.0
	特性粘数,ml/g	≥2200
	表观粘度,mPa·s	≥11.5

3.耐温抗盐聚合物(测试温度85℃,测试浓度1500 mg/l,测试矿化度32868 mg/l)

项目		j	省标
	外观	白色颗	i粒或粉末
米立	小于0.15mm颗粒含量,%	\leq	5.0
度	大于1.0mm颗粒含量,%	≤5.0	
	固含量,%	>	:89.0
	分子量,104	≥2500	≥2000
	滤过比	≤1.5	≤1.5
	特性粘数,ml/g	≥2400	≥2400
	表观粘度,mPa·s	≥13.0	≥15.0

包装运输储存

产品使用纸塑复合袋包装,每袋2g5或k根据用户需要确定,保质期2年。

16

Application field

Polyacrylamide is used as an oil displacement agent in the oil exploitation industry to increase the viscosity of injected water, improve the water flow ratio of oil, expand the sweep volume, and improve the oil recovery. Polyacrylamide can not only be used alone, but also can be used in combination with alkali, surfactant, etc., to form binary or ternary compound flooding. Polymer flooding, binary flooding and ASP flooding are the main measures to further control oil production cost and enhance oil recovery.

Product characteristics

This product is a tertiary oil recovery product developed by special molecular design according to oil displacement mechanism and reservoir characteristics. The product has remarkable viscosification effect, good resistance to high temperature and high salt, good shear resistance, good thermal stability, can effectively increase the displacement fluid viscosity, improve sweep coefficient, increase sweep volume, and improve oil recovery.

Product index

1.Conventional oil flooding polymer (apparent viscosity test temperature 60°C, test concentration 1500 mg/l, test salinity 6000mg/l

Item		Index
Appearance		White particles or powder
Particle	< 0.15mm Particle Content,%	≤5.0
Size	> 1.0mm Particle Content,%	≤5.0
	Solid Content, %	≥89.0
	Molecular Weight,10 ⁴	1600~2500
Filtration Ratio		≤2.0
Intrinsic Viscosity ml/g		≥2000~2400
	Colloidal Viscosity mPa·s	10~14

ltem		Index
	Appearance	White particles or powder
Particle	< 0.15mm Particle Content,%	≤5.0
Size	> 1.0mm Particle Content,%	≤5.0
Solid Content, %		≥89.0
	Molecular Weight,10⁴	≥1800
Filtration Ratio		€2.0
Intrinsic Viscosity ml/g		≥2000
	Colloidal Viscosity mPa·s	≥11.5
-		

3.Temperature and salt resistant polymer (test temperature 85°C, test concentration 1500 mg/l, test salinity 32868 mg/l)

Item		Ind	dex
	Appearance	White particle	es or powder
Particle	< 0.15mm Particle Content,%	€.	5.0
Size	> 1.0mm Particle Content,%	€.	5.0
	Solid Content,%	≥	89.0
	Molecular Weight,10 ⁴	≥2500	≥2000
Filtration Ratio		≤1.5	≤1.5
Intrinsic Viscosity ml/g		≥2400	≥2400
	Colloidal Viscosity mPa·s		≥15.0

Packaging, storage and transportation

The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to the needs of users, with a shelf life of 2 years.

驱油用表面活性剂

应用领域

在石油开采行业中表面活性剂作为驱油剂,既能单独使用,也能与聚丙烯酷胺碱等化学品复配应用于二元复合驱、三元复合驱。表面活性剂可显著降低油/水的界面张力,促进原油从岩石上脱附及有效分散,实现对残余油的驱动,提高洗油效率从而提高采收率。

产品特性

本产品能够将油/水界面张力值降至10~10mN/m,在产品合成过程中引入了耐温抗盐 基团,增加了对高温、高盐油藏的适应性。与聚丙烯酷胺配伍性较好,作为驱油剂可单独 使用,也可和其它类型表活剂复配使用,产品使用安全方便。

产品指标

頂日		指标	
	项目	I 类	II类
	外观	可流动液体(20℃), 无刺激性气味	
	pH 值	7.0~	-9.0
	溶解时间, min	≤1	0.0
基本性能	固含量,%	≥4	5. 0
	有机氯含量,%	0.	0
	界面张力,mN/m	IFT≤5×10 ⁻³	
	うト四	静态吸附: IFT<1×10 ⁻²	
	界面张力,mN/m	抗钙能力: IFT<5×10 ⁻³	
	うた田 1以 / J , 1111 / 111	聚合物配伍性: IFT<8×10 ⁻³	
	超低界面张力浓度窗口,%	0.1~0.6	
 应用性能	洗油能力,%	≥40.0	
四川工服	抗钙能力	溶液澄清,无明显沉淀生成	
	静态吸附, mg/g 砂	吸附损耗≤2	
	超低界面张力配比范围	PS: 表活剂=3:1~1:3	/
	与聚丙烯酰胺的配伍性,%	粘度保留率≥95.0	粘度保留率≥98.0

包装运输储存

各种型号桶装、罐装或根据客户要求,存于阴凉、干燥、通风的环境中,保质期 12 个月。





Surfactant for oil displacement

Application field

In the oil exploitation industry, surfactant can be used as oil displacement agent, not only alone, butalso with polyacrylamide, alkali and other chemicals used in binary compound flooding, ternary compound flooding. Surfactant can significantly reduce oil/water interfacial tension, promote oildesorption and effective dispersion from rock, achieve residual oil drive, improve oil washing efficiency, and thus improve oil recovery.

Product characteristics

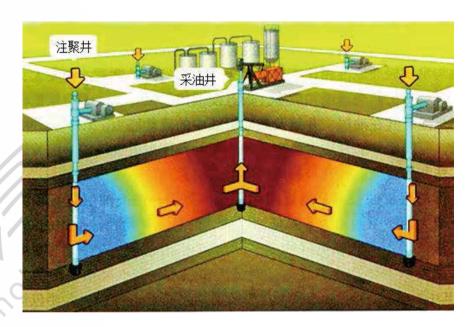
This product can be oil/water interfacial tension values fall to 10-3~10-5mN/m, was introduced to the product in the process of synthesis of heat resistance salt group, increase the adaptability to high temperature and high salt reservoir. Good compatibility with polyacrylamide, as an oil displacement agent can be used alone, can also be used with other types of surfactant combination, the product is safe and convenient to use.

Product index

ltem -		Index			
		I			II
	Appearance	Mobile liquid, (20°C), odorles		odorless	
	pH value	7.0~9.0			
	Dissolution time, min	≤10.0			
Basic Performance	Solid Content, %		≥45.0		
	Organochlorine Content, %	0.0			
	Interfacial Tension, mN/m	IFT≤5*10 ⁻³			
		Static Adsorption: IFT<1*10 ⁻²			
	Interfacial Tension, mN/m	Calcium Resistance, IFT<5*10 ⁻³			
	Interfacial Tension, mN/m	Polymer compatibility: IFT<8*10 ⁻³			
Application	Ultra low interfacial tension concentration	on window, % 0.1~0.6		0.6	
Performance	Oil washing capacity, %	≥40.0			
	Calcium Resistance	The solution was clarified without obvious precipitation			
	static adsorption, mg/g grit	Adsorption loss ≤2.0			
	Low interfacial tension ratio range	PS: surface active agent=3:1~1:3 /		/	
	Compatibility with polyacrylamide, %	Viscosity retention	n ≥95.0	Viscosi	ty retention ≥98.0

Packaging, storage and transportation

Various models are stored in a cool, dry and ventilated environment in drums, cans or according to customer requirements, with a shelf life of 12 months.





21-

乳液压裂减阻剂

应用领域

体积压裂是非常规油气资源开发的有效措施。施工作业中,压裂液排量大、摩阻大,施工压力高,制约了工艺参数设计优化;在压裂液中加入减阻剂,可以大幅度降低摩阻,降低施工压力,满足大排量施工的要求。

产品特性

- 1、配制方便,即用即配;
- 2、用量少,减阻效果明显,性价比高;
- 3、产品配伍性强,对滑溜水中的其他助剂没有负面影响;
- 4、压裂液滤失少,地层吸附性小。

产品指标

项目	指标
外观	粘稠液体
粘度, mPa•s	≥100
密度, mg/1	≥1.01
На	≥6.5
闪点,℃	≥100
固含量,%	≥35
溶解时间,min	≤30
离子电荷	中高阴离子
分子量	中高

包装运输储存

- 1、本产品采用 IBC 包装,净重 1000kg,也可按客户要求采用不同包装规格。
- 2、本产品避免与铜、铁、铝等金属接触,在密封、阴凉状态下保质期6个月。
- 3、本产品运输过程中注意包装密封,汽运、海运均可。
- 4、本产品尽量避免阳光暴晒和在高温下存放。

Emulsion fracturing drag reducer

Application field

Volumetric fracturing is an effective measure to develop unconventional oil and gas resources. In the construction operation, the hydraulic fracturing fluid displacement is large, the friction is large, the construction pressure is high, restricts the design and optimization of process parameters; Adding drag reducer into fracturing fluid can greatly reduce friction, reduce construction pressure, and meet the requirements of large displacement construction.

Product characteristics

- 1. Convenient configuration, ready-to-use matching;
- 2. Less consumption, obvious drag reduction effect, high cost performance;
- 3. Strong product compatibility, no negative impact on other additives in slippery water;
- 4. Less filtration loss of fracturing fluid and small formation adsorption.

Product index

Item	Index
appearance	Viscous Liquid
Viscosity, MPa	≥100
Density, mg/L	≥1.01
рН	≥6.5
Flash Point, °C	≥100
Solid Content, %	≥35
Solve Time , min	≤30
Ionic Charge	Medium-High Anion
Molecular Weight	Medium to High

Packaging, storage and transportation

- 1.This product is packed in IBC drum with a net weight of 1000kg. Different packing specifications can also be adopted according to customer requirements.
- 2. This product should avoid contact with copper, iron, aluminum and other metals. Shelf life is 6 months in sealed and cool state.
- 3. During the transportation of this product, pay attention to the packing and sealing, automobile transportation and sea transportation.
- 4. This product should be kept away from sunlight exposure and at high temperature.

钻井乳液降滤失剂

应用领域

钻井过程中钻井液滤失量大,容易引起泥页岩的水化膨胀和垮塌,造成井壁不稳定;钻井液和滤液侵入地层,引起黏土膨胀,井径缩小,容易造成卡钻。降滤失剂通过水化膜增厚、增粘、堵孔等机理起到降低钻井液滤失的效果,以保证钻井工作快速、优质、安全进行。

产品特性

- 1、用量少,配伍性能好,降滤失效率高;
- 2、性能稳定, 耐温能力强, 抗污染性能好, 受环境因素的影响小:
- 3、使用方便,易于分散,溶解迅速。

产品指标

项目	指标
外观	粘稠液体
粘度, mPa•s	≥100
密度, mg/l	≥1.01
рН	≥6.5
闪点,℃	≥100
固含量,%	≥35
溶解时间,min	≤30
离子电荷	中高阴离子
分子量	中高

包装运输储存

- 1、本产品采用IBC桶包装,净重 1000kg,也可按客户要求采用不同包装规格。
- 2、本产品避免与铜铁铝等金属接触,在密封、阴凉状态下保质期6个月。
- 3、本产品运输过程中注意包装密封,汽运、海运均可。
- 4、本产品尽量避免阳光暴晒和在高温下存放。

Drilling emulsion fluid loss reducer

Application field

In the process of drilling, the fluid loss is large, which is easy to cause the hydration expansion and collapse of mud shale, resulting in the instability of borehole wall. Drilling fluid and filtrate intrude into the formation, causing clay swelling, well diameter reduction, easy to cause stuck. Filtrate reducing agent can reduce the filtrate loss of drilling fluid through the mechanism of thickening, viscosifying and plugging of hydration film, so as to ensure the fast, high quality and safe drilling.

Product characteristics

- 1. Less consumption, good compatibility, high filtration efficiency;
- 2. Stable performance, strong temperature resistance, good anti-pollution performance, little affected by environmental factors;
- 3. Easy to use, easy to disperse, quickly dissolve.

Product index

Item	Index
appearance	Viscous Liquid
Viscosity, MPa	≥100
Density, mg/L	≥1.01
рН	≥6.5
Flash Point, °C	≥100
Solid Content, %	≥35
Solve Time , min	≤30
Ionic Charge	Medium-High Anion
Molecular Weight	Medium to High

Packaging, storage and transportation

- 1. This product is packaged in IBC drum with a net weight of 1000kg. Different packaging specifications can also be adopted according to customer requirements.
- 2. This product to avoid contact with copper, iron, aluminum and other metals, in sealed, cool state shelf life of 6 months.
- 3. Pay attention to the packing and sealing during the transportation of this product, which can be carried out by automobile or sea.
- 4. This product should be kept away from sunlight exposure and at high temperature.

压裂液减阻剂(颗粒型)

应用领域

在油田增产操作中,压裂液通过泵在高压力及高流速条件下被运送到深度约500米至6000米或许更深的钻孔处致使并眼周围的岩层开裂。减阻剂在压裂液中通过增加粘度、减少湍流等作用,减少运移过程中的阻力。

产品特性

产品 5min 完全溶解,水溶液粘度大,减阻效果好,适应性广;公司针对不同地层温度、矿化度等使用条件提供相应产品。

产品指标

项目		指标	
外观		白色颗粒或粉末	
粒	小于 0.15mm 颗粒含量,%	≤5.0	
度	大于 1.0mm 颗粒含量,%	≤ 5.0	
固含量,%		≥88.0	
分子量, 10 ^t		400~1800	
不溶物含量,%		≤0.2	
残单含量,%		≤0.1	
滤过因子		≤1.5	
溶解速度, min		≤5.0	

使用方法

可与杀菌剂、黏土稳定剂、助排剂等配合使用,加量占压裂体系 1%左右,具体数值根据使用条件而定。

包装运输储存

产品使用纸塑复合袋包装,每袋25kg或根据用户需求确定,产品保质期2年。

Fracturing fluid drag reducer (granular type)

Application field

In a field stimulation operation, fracturing fluid is pumped under high pressure and flow rates to drill holes at depths of approximately 500 m to 6,000 m or more to crack the rock around the hole. Drag reducer can reduce the resistance during migration by increasing viscosity and reducing turbulence in fracturing fluid.

Product characteristics

The product is completely dissolved in 5 minutes, and the aqueous solution has high viscosity, good drag reduction effect and wide adaptability. The company provides corresponding products for different formation temperature, salinity and other operating conditions.

Product index

	ltem	Index	
	Appearance	White particles or powder	
Particle	< 0.15mm Particle Content, %	≤5.0	
Size	> 1.0mm Particle Content, %	≤ 5.0	
	Solid Content, %	≥88.0	
Molecular Weight, 10 ⁴		400~1800	
Insoluble Content		≤0.2	
Residue Content, %		≤0.1	
Filtration Factor		≤1.5	
Solution Rate, min		≤5.0	

28

Usage method

It can be used with fungicide, clay stabilizer, drainage aid, etc., accounting for about 1% of the fracturing system, the specific value depends on the use conditions.

Packaging, storage and transportation

The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to the needs of users, with a shelf life of 2 years.

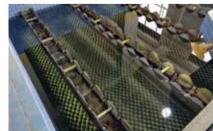
应用行业2: 水处理应用

公司提供的非离子型,阴离子型、阳离子型、两性离子型等水处理用聚丙烯酰胺系列产品具有分子量适中、可控、溶解性能好等优点,使用过程中絮凝快、絮体大,可节约药剂用量和使用成本,广泛应用于饮用水、污水以及污泥处理等领域。公司可针对具体水质进行产品筛选和工艺优化,为客户提供整体解决方案和现场技术服务。











Application industry 2: Application to water treatment

Our company offers products of non-ionic ,anionic, cationic, and amphion polyacrylamide series for water treatment. These products have fine flocculability and absorbability, so that they could remarkably reduce equipment cost and improve the equipment handling ability. They are widely used in treatment of drinking water, sewage, and sludge. The company can carry out product screening and process optimization for specific water quality, to provide customers with overall solutions and on-site technical services.









制香用聚合物

应用领域

聚丙烯酰胺增粘性能好,粘度是传统榆粉粘度的3~10倍,其成品香具有抗折性好、柔韧性强、不回软、燃烧好、没有特殊气味、灰分少等特点,是制香用最理想产品。

产品特性

本公司制香用聚合物粘度高,用量少、可燃性好,灰分少;可替代粘木粉、榆皮粉、根粉、胶粘剂等混合性粘结剂单独使用,使用成本低。

使用方法

将聚丙烯酰胺粉末配成溶液使用,配制浓度以0.05%~0.1%为宜,或将聚丙烯酰胺粉剂与木粉、香料、水等原材料按一定比例混合好后直接进入制香工段。具体使用方法因不同厂家不同工艺进行调整。

注意事项

- 1、配制过程放入足够的水,开动搅拌;
- 2、PAM粉剂连续均匀加入,严禁大量一次倒入;
- 3、推荐使用洁净软水代替混浊或含铁锈水或高硬度水配制;
- 4、推荐溶解过程一次完成,即直接溶解到所用的浓度;
- 5、溶解设备应为圆形,避免存在死角。

包装运输储存

产品使用纸塑复合袋包装,每袋25kg或根据用户需求确定,产品保质期2年。

Polymer for making incense

Application field

The viscosity of polyacrylamide is 3~10 times that of traditional elm powder. The finished product has the characteristics of good folding resistance, strong flexibility, no softening, good burning, no special smell, less ash, and so on. It is the most ideal product for incense making.

Product characteristics

The polymer used by our company to make incense has high viscosity, less consumption, good flammability and less ash. It can replace wood powder, elm powder, root powder, adhesive and other mixed binders used alone, with low cost.

Usage method

The polyacrylamide powder is prepared into solution, and the preparation concentration is $0.05\% \sim 0.1\%$. Or the polyacrylamide powder is mixed with wood powder, spices, water and other raw materials in a certain proportion, and then directly into the incense making section. The specific use method is adjusted according to different processes of different manufacturers.

Matters needing attention

- 1. The preparation process into enough water, start stirring;
- 2.PAM powder is added continuously and evenly. It is forbidden to pour a large amount of it once:
- 3.It is recommended to use clean soft water instead of turbid or rust-containing water or high hardness water preparation;
- 4.It is recommended to complete the dissolution process once, that is, dissolve directly to the used concentration;
- 5. The dissolving equipment should be round to avoid dead corners.

Packaging, storage and transportation

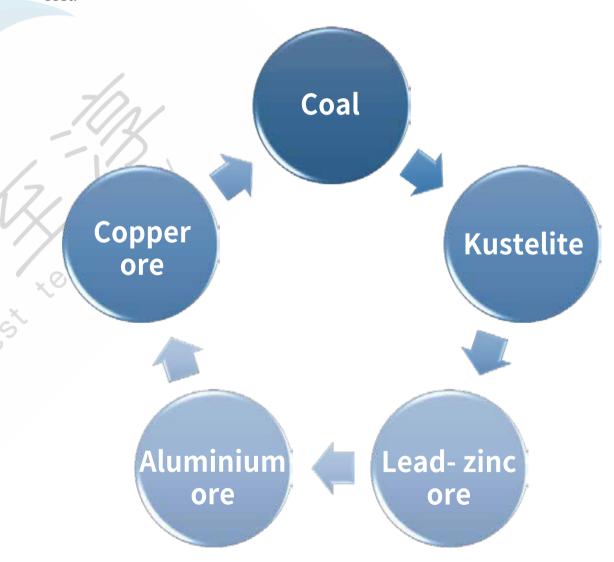
The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to the needs of users, with a shelf life of 2 years.

应用行业3: 采矿应用

公司提供的应用于煤炭、金银矿、铅锌矿、铝矿、铜矿等行业的聚丙烯酰胺系列产品,可有效促进固液分离和矿物颗粒的沉降,利于尾矿污泥浓缩脱水,减少尾矿流失和环境污染,提高生产效率、降低生产成本。

Application industry 2: Application to Mining

Our company also offers polyacrylamide products for ore dressing of coal, kustelite, lead-zinc ore, aluminium ore, and copper ore. These products could effectively accelerate solid liquid separation and the sedimentation of mineral grains. which are favorable for concentration and dewatering of talings sludge to decrease tailings loss and environmental pollution, improve the productivity and reduce production cost.



34

矿冶用聚合物

应用领域

聚丙烯酰胺广泛应用于矿冶业中,包括洗煤、选矿和冶金等。在这些过程中,聚丙烯 酰胺作为絮凝剂和助滤剂,与液体中矿物颗粒产生絮凝、加速细小颗粒浓缩、促进固液分 离,提高生产效率,减少尾矿流失,降低成本。

产品特性

本公司产品具有溶解性好、絮凝反应快、絮体结实,滤液悬浮物含量少、适应性强等特性。

产品指标

	项目	指标	
	外观	白色颗粒或粉末	
*\	小于0.15mm颗粒含量,%	≤5.0	
度	大于1.0mm颗粒含量,%	≤5.0	
	固含量,%	≥88.0	
离子度		中	
分子量,10 ⁴		1000~2500	
	不溶物含量,%	€0.2	
	残单含量,%	≤0.05	
滤过因子		≤2.0	
溶解速度,min		≤120.0	

注意事项

- 1、通常将本品配成 0.1%~0.3%的溶液备用;
- 2、溶解时应使本品均匀分散,采用搅拌方式进行溶解,搅拌速度控制在50~250rpm;
- 3、使用时避免采用金属材质等易影响水质的溶解罐;
- 4、提高水温可以加速溶解速度,但一般不要超过50℃。

包装运输储存

产品使用纸塑复合袋包装,每袋 25kg 或根据用户需求确定,产品保质期2年。

Polymer for mining and metallurgical purposes

Application field

Polyacrylamide is widely used in mining and metallurgical industry, including coal washing, mineral processing and metallurgy. In these processes, polyacrylamide as flocculant and filter aid, and the mineral particles in the liquid to produce flocculation, accelerate the concentration of fine particles, promote solidliquid separation, improve production efficiency, reduce tailings loss, reduce costs.

Product characteristics

BPT's products have the characteristics of good solubility, fast flocculation reaction, solid flocculation, less content of suspended solids in filtrate, strong adaptability and so on.

Product index

Item		Index	
	Appearance	White particles or powder	
Particle	< 0.15mm Particle Content, %	≤5.0	
Size	> 1.0mm Particle Content, %	≤5.0	
	Solid Content, %	≥88.0	
Ionicity		Middle	
	Molecular Weight, 10⁴	400~1800	
Insoluble Content		≤0.2	
Residue Content, %		≤0.05	
Filtration Factor		≤2.0	
Solution Rate, min		≤120.0	

Usage method

- 1. This product is usually prepared into 0.1% ~ 0.3% solution for reserve;
- 2. the product should be evenly dispersed when dissolving, using stirring method to dissolve, stirring speed control within 50 ~ 250rpm;
- 3. avoid the use of metal materials, such as easy to affect the water quality of the dissolving tank;
- 4. increasing the water temperature can accelerate the dissolution rate, but generally do not exceed 50°C.

Packaging, storage and transportation

The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to user requirements. The shelf life of the products is 2 years.

应用行业4:造纸应用

公司提供的造纸用聚丙烯酰胺系列产品可用作造纸纤维分散剂、产品质量稳定,使用效果明显,可显著改善纸张质量,提高生产效率,降低生产成本,受到造纸企业的青睐。



改善纸张 质量

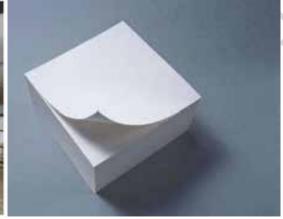


降低生产 成本



提高生产 效率





Application industry 4: Application to paper-making

The polyacrylamide series products provided by the company can be used as paper fiber dispersant, the product quality is stable, the use effect is obvious, can significantly improve the quality of paper, improve production efficiency, reduce production costs, by the paper enterprises.



Improving the quality of paper



Reducing production costs



Improving production efficiency





造纸分散剂

应用领域

纸张生产过程中,纸浆悬浮液中纤维、填料等固相易絮凝成团,降低纸张均匀度,增加损耗。造纸纤维分散剂可使固体纤维表面形成双电层,外层分散剂与水形成较厚水化层,增加固体间电荷斥力,提高固相分散效果,是一种经济有效的提高纸张均匀度的助剂。

产品特性

产品溶解速度快,粘度高,水不溶物含量低,高温易降解,促进纤维特别是长纤维分散,适应高速纸机生产,保证纸张定量低、纸页薄、纸质柔和均匀等。

产品指标

项目	指标
固含量,%	≥88.0
分子量,104	≥1800
水溶时间,min	€60
残留单体,%	≤0.05
水不溶物,%	€0.10
80目筛网过滤性	优

使用方法

- 1、产品在搅拌下缓慢均匀地洒落到溶解槽中配置成 $0.05\%\sim0.1\%$ 溶液,溶解 $1\sim2$ 小时,溶解时搅拌转速控制在 $40\sim60$ rpm,水温低于 50°C;
- 2、溶解槽和稀释槽之间,应安装60目筛网以去除未溶解的沉结物;
- 3、稀释后溶液依照成纸质量要求,用定量泵或计量槽喷淋投加于纸机网前箱,泵送时避免使用高剪切泵,以免造成剪切降解,影响使用效果。

包装运输储存

产品使用纸塑复合袋包装,每袋 25kg 或根据用户需求确定,产品保质期2年。

Paper dispersant

Application field

In the process of paper production, solid phases such as fibers and fillers in pulp suspension areeasy to flocculate into groups, reducing the uniformity of paper and increasing the loss. Paper fiber dispersing agent can make solid fiber surface form double electric layer, outer dispersant and water form thicker hydration layer, increase the repulsion between solids, improve the solid phase dispersion effect, is an economic and effective additives to improve the uniformity of paper.

Product characteristics

The product has the advantages of fast dissolution speed, high viscosity, low water insoluble content, easy degradation at high temperature, promoting the dispersion of fiber, especially long fiber, adapting to the production of high-speed paper machine, ensuring low paper quantity, thin paper, soft and uniform paper, etc.

Product index

Item	Index	
Solid Content, %	≥88.0	
Molecular Weight, 10 ⁴	≥1800	
Water Dissolution Time, min	≤60	
Residual Monomer, %	≤0.05	
Water Insoluble, %	≤0.10	
80 Mesh Screen Filterability	Excellent	

Usage method

1. The product is slowly and evenly sprinkled into the solution tank under agitation to form $0.05\% \sim 0.1\%$ solution, which is dissolved for $1\sim2$ hours. The stirring speed is controlled at $40\sim60$ rpm and the water temperature is lower than 50° C.

2.Between the dissolution tank and the dilution tank, a 60-mesh screen should be installed to remove the undissolved sediment;

3.After dilution, according to the quality requirements of the paper, the quantitative pump or metering tank spray is added to the front box of the paper machine mesh. The use of high shear pump is avoided when pumping, so as not to cause shear degradation and affect the use effect.

Packaging, storage and transportation

The products are packaged in paper and plastic composite bags, each bag is 25kg or determined according to the needs of users, with a shelf life of 2 years.

2.阳离子聚丙烯酰胺

定义:

本产品是由阳离子单体和丙烯酰胺共聚,是一种水溶性线性高分子有机聚合物。

应用范围:

本产品作为絮凝剂,主要应用于工业上的固液分离过程,包括沉降、澄清、浓缩及污泥脱水等工艺,应用的主要行业有:城市污水处理、造纸工业、食品加工业、石化工业、冶金工业、选矿工业、染色工业和制糖工业及各种工业的废水处理。在造纸工业中可用作纸张干强剂、助留剂、助滤剂,能极大的提高成纸质量,节约成本,提高造纸厂的生产能力。近年来,在油田作业中也被广泛用作油田化学剂:如粘土防膨剂,油田酸化用稠化剂,含油废水处理剂等。

使用方法:

本产品使用时,浓度应控制在0.1-0.2%,不使用配套溶解设备和投药系统时,应该设 溶解稀释罐。使用螺杆泵添加,用量根据实际情况调节。

技术指标:

外观	固含量(%)	分子量(百万)	离子度(%)	溶解时间 (min)
白色颗粒	≥ 88	6-15	低中高	≤ 60

2. Cationic PAM

Definition:

It is a water-soluble and linear organic polymer with high molecular weight copolymerized by cation monomer and acrylamide.

Applied Range:

As a flocculating agent, mainly used in industrial solid-liquid separation process, including settlement, clarification, concentrate and sludge dewatering processes etc. The main applications are urban sewage treatment, paper making, food processing, petrochemical, metallurgical miner dressing, dyeing, sugar making and all kinds of industrial wastewater treatment. In paper industry, it can be used as dry strength agent, retention agent, and filter aid, which can greatly improve paper quality, save cost and improve the production capacity. In recent years, it is also widely used in oil field, such as anti-clayswlling agent, acidification thickening agent, oil waste water treatment agent etc.

Usage:

When use it in real application, PAM should be dissolved in water with 0.1-0.2% concentration. If do not use matched dissolving equipment and dosing system, should prepare diluted cans with screw pump which can transport solution to the instructed designated field. Amount dosage is adjusted according to the actual situation.

Technical Index:

Appearance	Solid content(%)	Molecular Weight(million)	Degree of Ion (%)	Dissolving Time (min)
White Powder	≥88	6-15	Low Medium High	≤ 60

污泥脱水用絮凝剂

应用领域

污水处理过程中,会产生含水率 95%以上的污泥,为了便于运输以及后续的置利用,必须进行污泥脱水。 污泥脱水用絮凝剂因其分子链上带有活性阳离子基团,通过电中和及吸附架桥作用,使水中悬浮颗粒和带负电荷的水溶性物质失稳、絮凝,形成较大絮凝物沉降或上浮,达到降低污泥含水率的目的。

产品特性

本产品环保无污染、亲水性强、用量小、絮凝性能优异,与污泥充分混合后形成絮体,实现脱水分层,有效降低污泥含水率。

产品指标

项目	指标	
外观	白色或类白色粉末或颗粒	
固含量,%	≥88.0	
阳离子度,%	5~100	
分子量,10 ⁴	600~1800	
溶解时间,min	≪60	

使用方法

- 1、根据不同用途,应通过试验进行产品选型和确定投药量。
- 2、使用时一般可配成 0.05%~0.3%的水溶液,以使用中性不含盐类杂物的水为宜。

包装运输储存

产品使用纸塑三合一复合袋包装,每袋 25kg; 也可根据用户需求定制; 保质期 2 年。 产品容易吸潮, 应存放于阴凉、通风、干燥库房。

Flocculant for sludge dewatering

Application field

In the process of sewage treatment, sludge with moisture content above 95% will be produced. In order to facilitate transportation and subsequent disposal and utilization, sludge must be dehydrated. The flocculant used for sludge dewatering has active cationic groups on its molecular chain. Through the electric neutralization and adsorption bridging, the suspended particles and negatively charged water-soluble substances in the water become unstable and flocculated, resulting in the sedimentation or floating of large flocculants, so as to reduce the moisture content of the sludge.

Product characteristics

This product is environmentally friendly and pollution-free, strong hydrophilic, small dosage, excellent flocculation performance, and sludge fully mixed to form flocs, dehydration and stratification, effectively reduce the moisture content of sludge.

Product index

Item	Index
Appearance	White particles or powder
Solid Content, %	≥88.0
Cationic Degree, %	5~100
Molecular Weight, 10 ⁴	600~1800
Dissolution time, min	≤60

Usage method

1.According to different uses, product selection and dosage should be determined through tests.

2.when used, it can be generally matched into $0.05\% \sim 0.3\%$ water solution, and it is appropriate touse neutral water without salt debris.

Packaging, storage and transportation

The product uses paper and plastic three-in-one composite bag packaging, each bag 25kg; Can also be customized according to user needs; Shelf life is 2 years. The product is easy to absorb moisture, should be stored in a cool, ventilated, dry warehouse.

河道清淤絮凝剂

应用领域

河道疏浚底泥是含有大量无机和有机胶体的颗粒,具有较高的质量分数,相互间作用明显,造成沉降阻力大。河道清淤絮凝剂将其中的泥沙、细颗粒、胶体通过压缩双电层、电中和、吸附架桥、沉淀物卷扫(网捕)等作用,使其脱稳、聚集、絮凝、沉淀,从而实现脱水分离,达到河道疏浚、减少污染、改善水质的目的。

产品特性

河道清淤絮凝剂是低阳离子度产品,具有反应速度快、沉降固结时间短、水浊度低、淤泥含水率低、无毒无污染、环保友好的特点。

产品指标

项目	指标
外观	白色或类白色粉末或颗粒
固含量,%	≥88.0
阳离子度	低
分子量,10 ⁴	600~1800
溶解时间,mi n	≤60
残余单体含量,%	≤0.1

使用方法

- 1、使用时一般可配成0.1%~0.3%的水液,以使用中性不含盐类杂物的水为宜;
- 2、将本产品均匀地投入搅拌的水中,搅拌速度控制在100~300rpm,使其充分溶解 (切忌先加于粉后加水);
- 3、本系列产品的溶液应即配即用,配制后放置不要超过 24h,在配制、转移贮存本产品时,最好选用不锈钢、塑料、玻璃或玻璃钢制造的设备

包装运输储存

产品使用纸塑三合一复合袋包装,每袋 25kg; 也可根据用户需求定制; 保质期 2 年。 产品容易吸潮,应存放于阴凉、通风、干燥库房。

River dredging flocculant

Application field

The dredged sediment of river channel contains a large number of inorganic and organic colloidal particles, which has a high mass fraction and obvious interaction with each other, resulting in large settlement resistance. River dredging flocculant will be the sediment, fine particles, colloid through the compression of double electric layer, electric neutralization, adsorption bridge, sediment sweep (net and other effects, so that its stability, aggregation, flocculation, precipitation, so as to achieve dehydration separation, to achieve the purpose of dredging river, reduce pollution, improve water quality.

Product characteristics

River sedimentation flocculant is a low cationic product, with the characteristics of fast reaction speed, short settlement and consolidation time, low turbidity of water, low silt moisture content, non-toxic and pollution-free, environmental friendly.

Product index

Item	Index
Appearance	White particles or powder
Solid Content, %	≥88.0
Cationic Degree, %	Low
Molecular Weight, 10 ⁴	600~1800
Dissolution time, min	≤60
Residual Monomer, %	≤0.1

Usage method

- 1. Generally, it can be used to 0.1%~0.3% agin ueous solution, and it is appropriate to use neutral water without salt debris;
- 2. Evenly put the product into the stirring water, the dry powder before adding water);
- 3. The solution of this series of products should be ready to use, not more than 24 hours plastic, glass or glass steel manufacturing equipment after preparation, in the configuration, transfer, storage of this product, it is best to choose stainless steel,

Packaging, storage and transportation

The product uses paper and plastic three-in-one composite bag packaging, each bag 25kg; Can also be customized according to user needs; Shelf life is 2 years. The product is easy to absorb moisture, should be stored in a cool, ventilated, dry warehouse.

3.非离子聚丙烯酰胺

定义:

非离子聚丙烯酰胺是用丙烯酰胺均聚而成,纯度高,溶解性能好,分子量高。该系列产品是具有高分子量低离子度的线性高聚物。由于其具有特殊的基团,便赋予它具有絮凝、分散、增稠、粘结、成膜、凝胶、稳定胶体的作用。

应用范围:

污水处理剂:当污水显酸性悬浮液时作絮凝剂最为合适,尤其是和无机絮凝剂配合使用,水处理效果最佳。纺织工业:添加一些其他化学品可配制成化学浆料,用于纺织品上浆。防沙固沙:在一定的浓度下加入交联剂,喷洒在沙漠上,固化成膜可防沙、固沙。在干旱的地区,可作为土壤保湿剂,也可用于建筑业、建筑胶水,内墙涂料等方面。

技术指标:

外观	固含量(%)	分子量(百万)	离子度(%)	溶解时间 (min)
白色颗粒	≥ 88	8-12	≤ 5	≤ 60

3.Nonionic PAM

Definition:

Nonionic PAM is formed by homopolymerization of acrylamide, with high purity, good solubility and high molecular weight. This series of products are linear polymers with high molecular weight and low ionicity. Due to its special group, it is endowed with the functions of flocculation, dispersion, thickening, bonding, film formation, gel, and stable colloidal.

Usage:

Sewage treatment agent: When the sewage is acidic suspension is the most suitable flocculant, especially with the use of the inorganic flocculant, it performs the best water treatment effect. Textile industry: The addition of some other chemicals can be formulated into chemical slurries for textile sizing. Sand control and sand fixation: Adding a crosslinking agent at a certain concentration and spraying it on the desert to solidify and form a film to prevent and control sand. In dry areas, it can be used as a soil humectant, as well as in construction, construction glue, and interior wall coatings. etc

Technical Index:

Appearance	Solid content(%)	Molecular Weight(million)	Degree of Ion (%)	Dissolving Time (min)
White Powder	≥88	8-12	≤ 5	≤ 60

聚合氯化铝

什么是聚合氯化铝?



聚氯化铝是—种新型无机高分子净水剂。它是介于三氯化铝和氢氧化铝之间的水解产物,有较强的架桥吸附性能,易溶于水,水解过程伴随电化学凝聚、吸附和沉淀等物理化学过程,净水效果远优于传统的低分子净水剂硫化铝、三氯化铁、硫酸亚铁和明矾等。在国内外广泛用于饮用水、工业用水的净化和污水处理,受到用户的欢迎和重视。

产品特点:

本产品符合GB/15892-2020饮用水级别标准和水处理剂GB/T22627-2022标准,本公司引进先进的生产技术、使用国内先进的喷雾干燥技术生产。产品具有粉末细、颗粒均匀、易溶于水、絮凝效果好、净化高效稳定、投加量少、成本低等特点。

指标名称	饮用水级别 (GB/15892-2022)(固体)	水处理剂级别 (GB/T22627-2022)(固
三氧二化铝(Al ₂ O ₃)的质量分数%≥	29.0	体) 28.0
盐基度%	45.0-90.0	20.0-98.0
水不溶物的质量分数%≤	0.1	0.4
pH值(10g/L水溶液)	3.5-5.0	3.5-5.0
铁(Fe)的质量分数%≤	0.2	1.5
氨氮(以N计)的质量分数%≤	_	0.05
砷(As)的质量分数%≤	0.0001	0.0005
镉(Cd)的质量分数%≤	0.0001	0.0005
铬(Cr)的质量分数%≤	0.0005	0.005
铅(Pb)的质量分数%≤	0.0005	0.002
汞(Hg)的质量分数%≤	0.00001	0.00005

使用方法

聚为达到絮凝效果和经济效益,用户可根据不同的原水浊度、不同的季节和不同的反应 条件通过试验确定每千吨源水投药量,使用时液体产品配成10-15%的水溶液,固体产品配成 3-5%的水溶液(按商品重噩计算)。

- 1、将固体产品按1:3加水溶解为液体后,再加10-30倍清水稀释成所需浓度后使用。
- 2、一般原水浊度在100-5OOmg/L时,每千吨投加量为10-20kg。

包装运输储存

外用塑料编织袋,内有塑料薄膜套装,每袋净重25kg,还可根据用户要求改装,另有液体聚合氯化铝销售。该品禁止与有毒物品混装、运输及储存,产品应存放在室内干燥、通风、阴凉处,且勿受潮。装卸时要小心轻放,固体产品贮存期一年



Polyaluminium Chloride

What is polyaluminium chloride?

Polyaluminum chloride is a new type of inorganic polymer water purifier. It is a hydrolytic product between aluminum trichloride and aluminum hydroxide, with strong bridging adsorption performance, easy to dissolve in water, hydrolysis process accompa -nied by electrochemical coagulation, adsorption and precipitation and other physical and chemical processes, water purification effect is far better than the traditional low molecular water purifier aluminum sulfide, ferric chloride, ferrous sulfate and alum. Widely used in drinking water, industrial water purification and sewage treatment at home and abroad, by the user's welcome and attention.

Product characteristics

This product conforms to GB/15892-2020 drinking water grade standard and water treatment agent GB/T22627-2022 standard. The company introduces advanced production technology and uses domestic advanced spray drying technology for production. The product has the characteristics of fine powder, uniform particle, easy to dissolve in water, good flocculation effect, efficient and stable purification, small dosage, low cost.

Packaging, transportation and storage

External plastic woven bag, plastic film set, each bag net weight 25kg, can also be modified according to user requirements, and liquid polyaluminum chloride sales. The product is prohibited from mixing with toxic substances, transportation and storage. The product should be stored indoors in a dry, ventilated and cool place, and protected from moisture. Handle with care when loading and unloading. Storage period of solid products is one year.

Usage

Eln order to achieve flocculation effect and economic benefit, the user can determine the dosage per thousand tons of source water according to different raw water turbidity, different seasons and different reaction conditions through the test. In use, the liquid product is mixed into 10- 15% aqueous solution, and the solid product is mixed into 3-5% aqueous solution (calculated by commercial weight).

- 1. Dissolve solid products into liquid by adding water at 1:3, and then add 10-30 times water dilution to the required concentration before use.
- 2. As raw water turbidity in 100-500mg/L, the dosage of 10-20kg per thousand tons.

Technical Index:



Name of Index	Drinking Water Grade (GB/15892-2022) (Solid)	Grade of Water Treatment Agent (GB/T22627-2022) (Solid)
Mass Fraction of Al ₂ O ₃ %≥	29.0	28.0
Basicity%	45.0-90.0	20.0-98.0
Mass Fraction of Water Insoluble Matter %≤	0.1	0.4
pH Value (10g/L aqueous solution)	3.5-5.0	3.5-5.0
Mass Fraction of Fe %≤	0.2	1.5
Mass Fraction of NH ₃ -N (In N) %≤	_	0.05
Mass Fraction of As %≤	0.0001	0.0005
Mass Fraction of Cd %≤	0.0001	0.0005
Mass Fraction of Cr %≤	0.0005	0.005
Mass Fraction of Pb %≤	0.0005	0.002
Mass Fraction of Hg %≤	0.00001	0.00005

聚合硫酸铁

什么是聚合硫酸铁?



聚合硫酸铁、硫酸铁、除磷剂、重金属捕集剂产品可应用于工业污水的净水剂、自来水厂的沉淀剂、工业循环水的净化处理。本公司产品已经实用在化工、矿山、印染、电镀、造纸、钢铁等行业的工业废水和城市生活污水的净化处理工艺中,亦可用作重金属砷污染土壤治理剂,能达到理想的净化水处理效果

产品特点:

本产品符合国家GB/T14591-2016标准,公司研制生产的聚合硫酸铁性能稳定,净水效果优良,不含重金属离子等有害物质,对COD、BOD及色度的去除率高达90%以上。

- 对低温低浊度及高浊度原水净化效果甚佳。
- 水溶性好,不溶物低,重金属含呈低,净水效果好,出水水质稳定。
- 能有效避免使用铝盐净水剂造成饮用水中铝离子含量超标的影响人类身体健康问题。
- 使用方便、成本低廉,处理费用与使用其它无机絮凝剂相比一般可节省20%-50%。
- 具有脱色、脱臭、脱油、除菌、脱除水中重金属离子、放射性物质及致癌物等 多种功效,使用方便、成本低廉。

使用方法

使用前,将本产品按浓度(10~30%)投入溶解池,注入自来水搅拌使之水解,静置至呈红棕色液体,再兑水稀释到所需浓度投加混凝。水厂亦可配成2~5%直接投加,工业废水处理直接配成5~10%投加。一般污水(废水)净化处理所需药剂投加是约为5~50克(以固体聚合硫酸铁重量计算)每吨污水比例,使用前需根据水质进行烧杯试验,确定投入量,然后再使用。

包装运输储存

塑外编双层包装,内袋扎口(或热合),外袋封口。产品应存放在干燥、通风、阴凉处, 远离火种、热源、防止阳光直射,禁止有毒有害物质混贮、共运。

技术指标:

指标名称	一等品 (固体)	合格品 (固体)
全铁的质量分数₩1%≥	19.5	19.5
还原性物质(以Fe²+计)的质量分数 W₂%≤	0.15	0.15
盐基度W3%	8.0-16.0	5.0-20.0
水不溶物的质量分数%≤	0.4	0.6
pH值(10g/L水溶液)	1.5-3.0	1.5-3.0
锌(Zn)的质量分数%≤		0.01
镍(Ni)的质量分数%≤		0.01
砷(As)的质量分数%≤	0.0002	0.001
镉(Cd)的质量分数%≤	0.0001	0.0005
铬(Cr)的质量分数%≤	0.0001	0.005
铅(Pb)的质量分数%≤	0.0004	0.002
汞(Hg)的质量分数%≤	0.00002	0.0001

Polyferric Sulfate



What is polyferric sulfate?

Polymeric ferric sulfate, ferric sulfate, phosphorus removal agent, heavy metal collector products can be used in industrial sewage water purification agent, water plant precipitation agent, industrial circulating water purification treatment. The company's products have been used inchemical industry, mining, printing and dyeing, electroplating, paper making, steel and other industries of industrial wastewater and urban sewage purification process, can also be used as heavy metal arsenic contaminated soil treatment agent, can achieve the ideal water treatment effect.

Product characteristics

This product conforms to the national GB/T14591-2016 standard, the company developed and produced polyferric sulfate performance is stable, excellent water pur -ification effect, does not contain heavy metal ions and other harmful substances, COD, BOD and chroma removal rate up to 90%.

- Good purification effect on low temperature, low turbidity and highturbidity raw water.
- Good water solubility, low insoluble matter, low heavy metal content, good water puri -fication effect, water quality stability.
- Can effectively avoid the use of aluminum salt water purifier caused by excessive content of aluminum ions in drinking water affecting human health problems.
- Easy to use, low cost, treatment costs compared with the use of other inorganic flocculants can generally save 20%-50%.
- With decolorization, deodorization, deoiling, sterilization, removal ofheavy metal ions, radioactive substances and carcinogens in water and other effects, easy to use, low cost.

Usage

Before use, put this product into a dissolving tank according to its concentration (10 -30%), inject tap water, stir it to make it hydrolyze, swearingly make it into reddish-brown liquid, and then dilute it with water to the required concentration and add coagulation. Water plant can also be directly mixed into 2~5%, industrial waste water treatment directly mixed into 5~10%. General sewage (waste water) purification treatment required reagent dosage is about 5~50 grams (to solid polyferric sulfate weight calculation) per ton sewage ratio, before use, according to the water quality of the beaker test, determine the amount of input, and then use.

Packaging, transportation and storage

Before use, put this product into a dissolving tank according to its concentration (10 -30%), inject tap water, stir it to make it hydrolyze, swearingly make it into reddish-brown liquid, and then dilute it with water to the required concentration and add coagulation. Water plant can also be directly mixed into 2~5%, industrial waste water treatment directly mixed into 5~10%. General sewage (waste water) purification treatment required reagent dosage is about 5~50 grams (to solid polyferric sulfate weight calculation) per ton sewage ratio, before use, according to the water quality of the beaker test, determine the amount of input, and then use.

Technical Index:

Name of Index	Top Quality Product (Solid)	Qualified Product (Solid)
Mass Fraction of all iron W₁%≥	19.5	19.5
Mass Fraction of a reducing substance (Fe ²⁺) $W_2\% \le$	0.15	0.15
Basicity W ₃ %	8.0-16.0	5.0-20.0
Mass Fraction of Water Insoluble Matter %≤	0.4	0.6
pH Value (10g/L aqueous solution)	1.5-3.0	1.5-3.0
Mass Fraction of Zn %≤		0.01
Mass Fraction of Ni%≤		0.01
Mass Fraction of As %≤	0.0002	0.001
Mass Fraction of Cd %≤	0.0001	0.0005
Mass Fraction of Cr %≤	0.0001	0.005
Mass Fraction of Pb %≤	0.0004	0.002
Mass Fraction of Hg %≤	0.00002	0.0001