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Poly-Diallyl dimethyl ammonium chloride (PolyDADMAC)

CAS Number: 26062-79-3

Trade name: PD LS 41/45/49/35/20

Chemical name: Poly-diallyl dimethyl ammonium chloride

Features and Applications:

PolyDADMAC is a cationic quaternary ammonium polymer which is completely dissolved in water, it contains strong cationic radical and activated adsorbent radical, which can destabilize and flocculate the suspended solids and the negative-charged water soluble matters in the wastewater through electro-neutralization and bridging adsorption. It achieves good results in flocculating, de-coloring, killing algae and removing organics.

It can be used as flocculating agent, decoloring agent and dewatering agent for drinking water, raw water and waste water treatment, fungicide for textile printing and dyeing trade, softening agent, antistatic, conditioner and color fixing agent. Moreover, it can also be used as surface active agent in chemical industries.

Specifications:

Product code	PD LS 41	PD LS 45	PD LS 49	PD LS 40HV	PD LS 35	PD LS 20	PD LS 20HV
Appearance	Colorless to Pale Amber Liquid, Free from Foreign Matter						
Solid content (120°C, 2h) %	39-41				34-36	19.0-21.0	
Viscosity (25°C)	1000-3000	2500-5000	8000-13000	150000	200-1000	100-1000	1000-2000
PH	5.0-8.0						

Concentration and viscosity of solution can be customized according to customers' needs.

Package and Storage:

The product is packed 210kg net in plastic drum or 1100kg net in IBC.

Shelf life: 24 months

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Polyamine

CAS Number: 42751-79-1;25988-97-0;39660-17-8

Trade name: Polyamine LSC51/52/53/54/55/56

Chemical name: Dimethylamine/epichlorohydrin/ethylene diamine copolymer aq. sol'n

Features and Applications:

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.

The product can be used to mix with inorganic coagulants, such as polyaluminium chloride or alum for treatment of low-turbidity waste water or tap water. It can also be used in purification of waste water from oil-field, or as anionic trash catch in white water system in paper making.

Specifications:

Product Code	LSC 51	LSC 52	LSC 53	LSC 54	LSC 55	LSC 56
Appearance	light yellow viscous liquid					
Solid(110°C, 2h)%	50±1					
PH	5-7					
Viscosity (25°C)	50-200	200-500	600-1000	1000-3000	3000-6000	6000-10000

Concentration and viscosity of solution can be customized according to customers' needs.

Package and Storage:

210Kg net in plastic drum, or 1100kg/IBC.

Keep in room temperature.

Shelf life: 24 months.

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Water Decoloring Agent

CAS Number: 55295-98-2

Trade name: LSD-01 / LSD-03 /Lsd-07Decoloring Agent

Chemical name: PolyDCD; Dicyandiamide formaldehyde resin

Features & Applications:

Water Decoloring Agent is a quaternary ammonium cationic copolymer, it's dicyandiamide formaldehyde resin. it has excellent efficiency in decoloring, flocculating and COD removal.

1. The product is mainly used to decolor the effluent with high colority from dyestuff plant. 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:

Product Code	LSD-01	LSD-03	LSD-07
Appearance	Colorless or light-color sticky liquid	Light yellow or yellow sticky liquid	Colorless or light-color sticky liquid
Solid Content	≥50.0		
Viscosity(mpa.s 20°C)	30-1000	5-500	30-1000
PH(30% water solution)	2.0-5.0		

Concentration and viscosity of solution can be customized according to customers' needs.

Application method and notes:

- 1 .The product shall be diluted with 10-40 times water, then added to the wastewater directly. After stirring for several minutes, the clear water will be got by precipitation or air-floatation.
2. The optimized pH of the wastewater accepted is 6-10.
3. It is recommended to use this product with the inorganic flocculants to treat the effluent with high color and COD to reduce the operation cost. The order and proportion of agent dosage depend on the flocculation test and the effluent treatment process.
4. The product would show layer separation and become white at low temperature. There is no negative impact on the usage after mixing up.

Package and storage:

Store in dry and ventilated room, recommended temperature 5-30°C.

The product is packed in 250kg/drum, or 1250kg/IBC.

Shelf life: 12 months

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Dially Dimethyl Ammonium Chloride

DADMAC; DMDAAC

CAS No.: 7398-69-8

Chemical name: Diallyl Dimethyl Ammonium Chloride

Trade name: DADMAC 60/ DADMAC 65

Molecular Formula: C₈H₁₆NCl

Features & Applications:

Diallyl Dimethyl Ammonium Chloride (DADMAC) is a quaternary ammonium salt, it is soluble in water by any ratio, nontoxic and odorless. At various pH levels, it is stable, not easy to hydrolysis and not flammable.

As cationic monomer, this product can be homo-polymerized or co-polymerized with other vinyl monomer, and introduce group of quaternary ammonium salt to polymer. Its polymer can be used as superior formaldehyde-free color-fixing agent and antistatic agent in the dyeing and finishing auxiliaries for textile and the AKD curing accelerator and paper conductive agent in paper making additives. It can be used in the decoloring, flocculation and purification, it can also be used as the shampoo combing agent, wetting agent and antistatic agent and also the flocculating agent and clay stabilizer in oil-field.

Specifications:

Product code	DADMAC 60	DADMAC 65
Appearance	Colorless to light yellow transparent liquid	
Solid Content %	59.0-61.0	64.0-66.0
PH (1% water solution)	4.0-8.0	4.0-8.0
Chroma, APHA	50 max.	80 max.
Sodium chloride %	3.0 max	

Package and Storage:

1000Kg net in IBC or 200kg net in plastic drum.

It should be stored in a cool, dark and ventilated area, avoid sunshine and high temperature, and avoid contact with strong oxidant and materials, such as iron, copper and aluminum.

Shelf life: 12 months.

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Polyacrylamide emulsion

CAS No.: 9003-05-8

Chemical name: Polyacrylamide emulsion

The product is a synthetic organic polymeric emulsion with high molecular weight, used for the clarification of industrial waste waters and surface waters and for sludge conditioning. The use of this flocculant ensures high clarity of the treated water, remarkable increase of the sedimentation rate as well as the possibility to operate over a wide PH range. The product is easy to handle and dissolves very rapidly in water. It is used in varies industrial sectors, such as : food industry, iron and steel industry, paper making, mining sector, petrolchemical sector,etc.

Specifications:

Product code	Ionic character	Charge degree	Molecular weight	Bulk viscosity	UL Viscosity	Solid content (%)	Type
AE8010	Anionic	low	high	500-2000	3-9	30-40	w/o
AE8020	Anionic	medium	high	500-2000	3-9	30-40	w/o
AE8030	Anionic	medium	high	500-2000	6-10	30-40	w/o
AE8040	Anionic	high	high	500-2000	6-10	30-40	w/o
CE6025	cationic	low	medium	900-1500	3-7	35-45	w/o
CE6055	cationic	medium	high	900-1500	3-7	35-45	w/o
CE6065	cationic	high	high	900-1500	4-8	35-45	w/o
CE6090	cationic	very high	high	900-1500	3-7	40-55	w/o
CE6125	cationic	low	medium	900-1500	3-6	30-45	w/o
CE6140	cationic	medium	medium	900-1500	3-6	35-50	w/o
CE6520	cationic	medium	high	100-600	3-6	35-45	w/w
CE6540	cationic	medium high	low	200-400	3-6	35-45	w/w
CE6560	cationic	high	high	200-400	3-6	35-45	w/w

Applications:

- 1.Used as paper retention for culture paper, newspaper and cardboard paper, etc, with high-effective contents, fast-dissolving, low dosage, doubled efficiency than other water-in-water emulsion.
- 2.Used as water treatment chemical for municipal sewage, papermaking, dyeing, coal washing, mill run and other industrial wastewater treatment and oil drilling , with high-viscosity, fast-reaction, broad application, convenient to use.

Attention:

1. Operator should wear protective appliance to avoid touching skin. If so, wash immediately to rinse out.
2. Avoid sprinkling on floor . If so, clear in time to prevent slip and injure.
3. Store the product in dry and cool place, at the suitable temperature of 5°C-30°C

Package and shelf life:

250KG/drum,1200KG/IBC

Shelf life: 6 months

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Polyacrylamide (PAM)

CAS NO.: 9003-05-8

Characteristics:

Polyacrylamide (PAM) is water-soluble polymers, which is insoluble in most organic solvents, with good flocculation it can reduce the frictional resistance between the liquid. Our products by ion characteristics can be divided into anionic, nonionic, cationic types.

Specification:

Product Type	Product Code	Molecular	Hydrolysis Degree
Anionic Polyacrylamide	A8219L	High	Low
	A8217L	High	Low
	A8216L	Medium High	Low
	A8219	High	Medium
	A8217	High	Medium
	A8216	Medium High	Medium
	A8215	Medium High	Medium
	A8219H	High	High
	A8217H	High	High
	A8216H	Medium High	High
	A8219VH	High	Ultra High
	A8217VH	High	Ultra High
A8216VH	Medium High	Ultra High	
Nonionic Polyacrylamide	N801	Medium	Low
	N802	Low	Low
Cationic Polyacrylamide	K605	Medium High	Low
	K610	Medium High	Low
	K615	Medium High	Low
	K620	Medium High	Medium
	K630	Medium High	Medium
	K640	Medium High	High
	K650	Medium High	High
	K660	Medium High	Ultra High

Package and storage:

The powder is packed by airtight paper-plastic composite bag, and 25 KG each bag, or it can also be put according to buyer's requirement. It can easily absorb moisture and become the block matter, thus it should be kept in dry, cool and ventilation place.

Shelf life:24 months

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Aluminum Chlorohydrate

Chemical Formula: $Al_2(OH)_5Cl \cdot 2H_2O$ **Molecular weight:** 210.48g/mol **CAS:** 12042-91-0

Physical and chemical properties:

Inorganic macromolecular compound; white powder, its solution shows colorless or tawny transparent liquid and specific gravity is 1.33-1.35g/ml (20°C), easily dissolved in water, with corrosion.

Product specification:

GRADE	Water treatment grade (Solution) ACH-01	Cosmetics grade(Solution) ACH-02	Water treatment grade (Powder) ACH-01S	Cosmetics grade (Powder) ACH-02S
ITEM	USP-34	USP-34	USP-34	USP-34
Solubility	Soluble in water	Soluble in water	Soluble in water	Soluble in water
Al ₂ O ₃ %	>23	23-24	>46	46-48
Cl %	<9.0	7.9-8.4	<18.0	15.8-16.8
Basicity%	75-83	75-90	75-83	75-90
AL:CL	-	1.9:1-2.1:1	-	1.9:1-2.1:1
Insoluble substance %	≤0.1%	≤0.01%	≤0.1%	≤0.01%
SO ₄ ²⁻ ppm	≤250 ppm		≤500 ppm	
Fe ppm	≤100 ppm	≤75 ppm	≤200 ppm	≤150 ppm
Cr ⁶⁺ ppm	≤1.0 ppm	≤1.0 ppm	≤2.0 ppm	≤2.0 ppm
As ppm	≤1.0 ppm	≤1.0 ppm	≤2.0 ppm	≤2.0 ppm
Heavy Metal As (Pb) ppm	≤10.0 ppm	≤5.0 ppm	≤20.0 ppm	≤5.0 ppm
Ni ppm	≤1.0 ppm	≤1.0 ppm	≤2.0 ppm	≤2.0 ppm
Cd ppm	≤1.0 ppm	≤1.0 ppm	≤2.0 ppm	≤2.0 ppm
Hg ppm	≤0.1 ppm	≤0.1 ppm	≤0.1 ppm	≤0.1 ppm
PH-value[15% (W/W)20°C]	3.5-5.0	4.0-4.4	3.5-5.0	4.0-4.4
Permeation rate 15%	>90%	>90%		
Particle size(mesh)			100%pass 100mesh 99%pass 200mesh	100%pass 200mesh 99%pass 325mesh

Use and advantages:

- 1) Urban drinking water treatment Switch to high aggregate of aluminium recognized benefits
- 2) The urban sewage and industrial wastewater treatment
- 3) Paper industry
- 4) Cosmetic Raw Materials

Safety protection and processing:

Aluminum Chlorohydrate solution have a slight corrosive, non-toxic, non-dangerous article, Non-contraband, While on the job wear goggles long sleeves rubber gloves.

Packaging and Storage:

Powder:25KG/bag Solution: Barrel: 1000L IBC Drum: 200L plastic drum Flexitank: 1,4000-2,4000L flexitank
 Shelf life: 12 months

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Polyaluminium Chloride

CAS Number: 1327-41-9

Chemical name: Polyaluminium Chloride

Features and Applications:

This product is a new-type inorganic macromolecule coagulant with high efficiency. It is widely used in the drinking water, industrial water purification, industrial effluent municipal sewage treatment.

1. It can lead to quick formation of flock with big size and rapid precipitation.
2. It has wide-range adaptability to the waters at different temperatures and a good solubility.
3. The product is slightly corrosive and suitable for the automatic dosing and convenient for operation.

Specifications:

	Drying method	Appearance	Al ₂ O ₃ %	Basicity	Insoluble Substance %
PAC LS 01	Spray dry	White or pale yellow powder	≥29.0	40.0-60.0	≤0.6
PAC LSH 02		Light yellow or yellow powder	≥30.0	60.0-85.0	
PAC LS 03			≥29.0		
PAC LSH 03			≥28.0		
PAC LS 04			≥28.0	≤1.5	
PAC LD 01	Drum dry	Yellow to brown powder	≥29.0	80.0-95.0	≤1.0

Application Method and Notes:

1. Dilution is necessary before dosing for the solid product. The normal dilution ratio for the solid product is 2%-20% (based on weight percentage).
2. The specific dosage is based on the flocculation tests and trials by the users.

Package and storage:

The product is packed in 25kg woven bag with inner plastic bag.

The product should be stored in a dry and ventilated place.

shelf life: 12 months

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High purity liquid PAC(PAC LS15 &10)

CAS No. :1327-41-9

This product is polymerized by high-purity raw material with the most advanced production process at present. All the indexes meet with the national standard, even exceeds it.

Properties

The product is colorless and transparent liquid (10% Al₂O₃)

It is mainly used in paper-making industry, it is also used in the pretreatment of high-purity water and fine casting processing.

Specifications:

Item	Standard	
	LS15	LS10
Appearance	Light yellow transparent liquid	
Relative density (20°C) ≥	1.30	1.19
Al ₂ O ₃ (%)	14.5-15.5	9.5-10.5
Basicity	38.0-60.0	
PH (1% water solution)	3.0-5.0	
Fe % ≤	0.02	

The product can be made upon the customers' special request.

Application Method & Notes:

The usage method is determined according to different applications and different treatment processes.

The product is packed in 1300kg/IBC or 280kg/drum or delivered by tank.

The product can be stored for 6 months.

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