

Integrity, Cooperating, Win-win



凯特达化工
— KAITEDA CHEM —

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Shandong Kaiteda Chemical Co., Limited

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Company PROFILE



Shandong Kaiteda Chemical Co., Limited

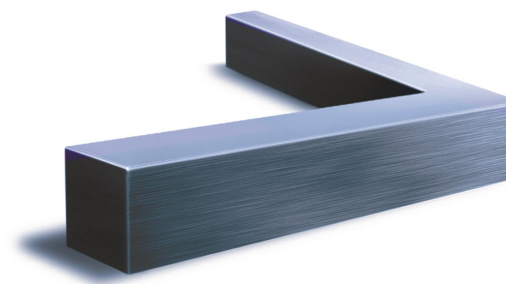
凯特达化工

Shandong Kaiteda Chemical Co., Limited belongs to Spring Share Group Limited (HK) founded in 2007, which is a world famous chemical supplier. With the goal of customer satisfaction, KAIEDA focuses on Ferrous Sulphate Heptahydrate/Monohydrate/Tetrahydrate, Aluminium Sulphate, Calcium Chloride, Polyaluminium Chloride, Magnesium Chloride, ATMP, HEDP, HPMA, DTPMPA, BKC and other chemical products production, research, marketing and investment, to provide chemical purchasing one-stop service for the whole industry chain.

KAIEDA chemical located in the beautiful city, Zouping, one of China's 100 top city. KAIEDA is famous for high quality products and excellent services. Now we are stable supplying our products to more than 60 countries and regions which located in the Middle East, South America, North America, Southeast Asia, Africa, Europe and Oceania.

At present, we mainly produce Ferrous Sulphate Heptahydrate/Tetrahydrate/Monohydrate (80,000 MT/Year), Aluminium Sulphate (30,000 MT/Year), Calcium Chloride (150,000 MT/year), Magnesium Chloride (200,000 MT/year), Polyaluminium Chloride (100,000 MT/year), ATMP, HEDP, HPMA, DTPMPA, BKC (100,000 MT/year). The company continues to expand and develop.

In the future, we will continue to provide the core value to the whole industry, explore the channels of importing raw materials, expand the channels of exporting products, provide more satisfactory service for all partners, create more value for the society and realize the dream of more staffs.



COMPANY HONORARY CERTIFICATE

PRODUCT CONTENT



CONTENT 目录

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- ◎ PAAS
- ◎ BKC
- ◎ DTPMPA

Ferrous Sulphate Heptahydrate

七水硫酸亚铁

Molecular Formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ CAS No.: 7720-78-7

Appearance: Blue-green Crystalline

Application: Industrially used for the manufacture of iron salts, inks, red iron oxide and indigo, used as mordants, tanning agents, water purifying agents, wood preservatives and disinfectants, etc.; used as fertilizers, herbicides and pesticides in agriculture.

Package: 25kg/ PP+PE bag ,1250kg/jumbo bag .



Specification

Item	Index
$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	$\geq 98\%$
Fe	$\geq 19\%$
As%	≤ 0.0002
Pb%	≤ 0.002
Cd%	≤ 0.0005

Ferrous Sulphate Tetrahydrate

四水硫酸亚铁

Molecular Formula: $\text{FeSO}_4 \cdot 4\text{H}_2\text{O}$ CAS No.: 20908-72-9

Appearance: Yellowish green

Application: Mainly used in water purification and industrial wastewater treatment, and has a bactericidal effect.

Package: 25kg/ PP+PE bag ,1250kg/jumbo bag .

Specification

Item	Index
$\text{FeSO}_4 \cdot 4\text{H}_2\text{O}$	$\geq 90\%$
As%	≤ 0.0005
Pb%	≤ 0.002
Cd%	≤ 0.0005



Ferrous Sulphate Monohydrate

一水硫酸亚铁

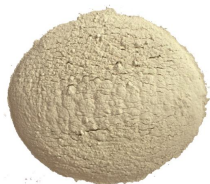
Molecular Formula: $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ CAS No.: 13463-43-9

Appearance: Gray-white powder

Application: For iron salt, iron oxide pigments, mordants, water purifying agents, preservatives, disinfectants, etc.;Pharmaceuticals,

Feed Additives, Pesticides, Fertilizers.

Package: 25kg/ PP+PE bag ,1250kg/jumbo bag .



Specification

Item	Index
$\text{FeSO}_4 \cdot \text{H}_2\text{O}$	$\geq 91\%$
Fe	$\geq 30\%$
As%	≤ 0.0002
Pb%	≤ 0.002
Cd%	≤ 0.0005

Magnesium Chloride Flakes/Pearls

氯化镁 片/颗粒

Molecular Formula: MgCl_2 CAS No.: 7791-18-6

Appearance: Yellow-White Flakes/Pearls

Application: Production of magnesium metal, disinfectant, frozen brine, ceramics, filled fabrics, paper, food additives, protein coagulants, snow melting agents, refrigerants, dusting agents, refractory materials, etc

Specification

Item	Index
MgCl_2	$\geq 46\%$
Ca^{2+}	$\leq 0.15\%$
Water insoluble%	$\leq 0.1\%$
Sulfate(SO_4) $^{2-}$	$\leq 1.0\%$
Alkali chloride(Cl^-)%	$\leq 0.5\%$



Calcium Chloride Dihydrate

二水氯化钙

Molecular Formula: $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ CAS No.: 10035-04-8

Appearance: White flakes

Application: Used as a coolant, antifreeze, extinguishing agent, flame retardant for melted ice and melted snow, cotton fabrics, and a gelling agent for rubber production. It can accelerate the hardening of concrete and increase the cold resistance of building mortar. It can be used as an anti-fog agent and pavement dust collector in the port. Used as a coagulant for cans and soy products, calcium fortifier.

Package: 25kg/ PP+PE bag ,1000kg/jumbo bag .



Specification

Item	Index
CaCl_2	$\geq 74\%$
Alkali Chloride,NaCl	$\leq 5.0\%$
MgCl_2	$\leq 0.5\%$
Alkali Chloride, $\text{Ca}(\text{OH})_2$	$\leq 0.20\%$
Insoluble	$\leq 0.15\%$
Sulfate, CaSO_4	$\leq 0.05\%$

Calcium Chloride Anhydrous

无水氯化钙

Molecular Formula: CaCl_2 CAS No.: 10043-52-4

Appearance: White granular/powder

Application : Desiccant, road dust, soil conditioner, refrigerant, water purifier, upper paddle.Material of chemical reagents, pharmaceutical raw materials, food additives, feed additives,metal calcium.

Package: 25kg/ PP+PE bag ,1000kg/jumbo bag .



Specification

Item	Index
CaCl_2	$\geq 94\%$
Alkali Chloride,NaCl	$\leq 5.0\%$
MgCl_2	$\leq 0.5\%$
Alkali Chloride, $\text{Ca}(\text{OH})_2$	$\leq 0.25\%$
Insoluble	$\leq 0.25\%$
Sulfate, CaSO_4	$\leq 0.05\%$

Polyaluminium Chloride for Waste Water(Roller/Spray)

聚合氯化铝(工业级, 滚筒/喷雾)

Molecular Formula: $\text{Al}_2\text{Cl}_n(\text{OH})_{6-n}$ CAS No.: 1327-41-9

Appearance: Dark Brown /Light Brown Powder

Application: It usually application in urban supply water system,river water, reservoir water,underground water;industry water supply purification.

Package: 25kg/50kg PP+PE bag.

Specification

Item	Index
Al_2O_3	$\geq 28\%$
Basic Salinity	40-90
Water Insoluble	$\leq 1.5\%$
PH(1% aqueous solution)	3.5-5.0



Polyaluminium Chloride for Drink Water(Roller/Spray)

聚合氯化铝(饮用水级, 滚筒/喷雾)

Molecular Formula: $\text{Al}_2\text{Cl}_n(\text{OH})_{6-n}$ CAS No.: 1327-41-9

Appearance: Yellow/White Powder Drying Method: Roller/Spray

Application: Flocculants, drinking water treatment, paper sizing, etc

Package: 25kg/50kg PP+PE bag.

Specification

Item	Index
Al_2O_3	$\geq 29\%$
Basic Salinity	40-90
Water Insoluble	$\leq 0.3\%$
PH(1% aqueous solution)	3.5-5.0



Aluminium Sulphate Non Ferric

无铁硫酸铝

Molecular Formula: $Al_2(SO_4)_3$ CAS No.: 10043-01-3

Appearance: White Flake/Granular/Powder

Application: Mainly used as water treatment agent, papermaking sizing agent

Package: 50kg/ PP+PE bag.



Specification

Item	Index
Al_2O_3	$\geq 16.5\%$
Fe	$\leq 0.005\%$
Water Insoluble	$\leq 0.1\%$
PH(1% aqueous solution)	3.0
Arsenic	$\leq 0.0005\%$
Heavy Metal (Pb)	$\leq 0.002\%$

Aluminium Sulphate Low Ferric

低铁硫酸铝

Molecular Formula: $Al_2(SO_4)_3$ CAS No.: 10043-01-3

Appearance: White Flake/Granular/Powder

Application: Mainly used as water treatment agent, papermaking sizing agent

Package: 50kg/ PP+PE bag.



Specification

Item	Index
Al_2O_3	$\geq 15.6\%$
Fe	$\leq 0.9\%$
Water Insoluble	$\leq 0.15\%$
PH(1% aqueous solution)	3.0
Arsenic	$\leq 0.0005\%$
Heavy metal (Pb)	$\leq 0.002\%$

Calcium Formate Feed Grade/Industry Grade

甲酸钙

Molecular Formula: $Ca(HCOO)_2$ CAS No.: 544-17-2

Appearance: Crystal Flowing Powder Package: 25kg/ PP+PE bag, 1000kg Jumbo bag.

Application: It is used as a feed additive and is suitable for all kinds of animals. It has the functions of acidification, anti-mildew, antibacterial, etc. It is also used in industry for concrete, mortar additives, tanning of leather or as a preservative.

Specification of Industry Grade

Item	Index
Calcium Formate	$\geq 98\%$
Ca	$\geq 30\%$
Moisture	$\leq 0.5\%$
PH	6.5-7.5



Specification of Feed Grade

Items	Index
Calcium Formate	$\geq 98\%$
Ca	$\geq 30\%$
Moisture	$\leq 0.5\%$
PH	6.5-7.5
As	$\leq 0.002\%$
Pb	$\leq 0.002\%$
Heavy Metals	$\leq 0.002\%$

Ammonium Aluminum Sulphate

硫酸铝铵

CAS No.: 7784-25-0

Molecular Formula: $Al_2(SO_4)_3$ Appearance: White Powder



Product Name	Aluminium Ammonium Sulphate Crystal	Aluminium Ammonium Sulphate Powder	Aluminium Ammonium Sulphate Lump
Assay((NH ₄)Al(SO ₄) ₂ ·12H ₂ O)	99.5%min	92%min	98%min
Insoluble Matter	50ppm max		
Iron(as Fe)	30ppm max	50ppm max	50ppm max
Heavy Metal(as Pb)	3ppm max	3ppm max	3ppm max
Chloride(as Cl)	20ppm max	20ppm max	20ppm max
Arsenic(as As)	0.5ppm max	0.5ppm max	0.5ppm max
PH value(1% solution)	3.0 min	3.0 min	3.0 min
Particle Size	100% Thru 6 mesh	100% Thru 20 mesh	Irregular

Potassium Aluminum Sulphate

硫酸铝钾

CAS No.: 7784-24-9

Molecular Formula: $KAl(SO_4)_2 \cdot 12H_2O$ Appearance: lump, White Crystal, White Powder



Product Name	Aluminium Potassium Sulphate Crystal	Aluminium Potassium Sulphate Powder	Aluminium Potassium Sulphate Ball
Assay($Al_2(SO_4)_2 \cdot K_2SO_4 \cdot 24H_2O$)	99.5%min	99.5%min	99%min
Fe	0.01%max	0.01%max	0.01%max
Cl	0.05%max	0.05%max	0.05%max
Pb	0.001%max	0.001%max	0.001%max
As	0.0001%max	0.0001%max	0.0001%max
PH	OVER 3.0	OVER 3.0	OVER 3.0
Insoluble Matter	0.02%	0.02%	0.02%
Particle Size	100% Thru 6 mesh	100% Thru 30 mesh	120g-130g

Ferric Chloride

三氯化铁

CAS No.: 7705-08-0

Molecular Formula: $FeCl_3$



Specification

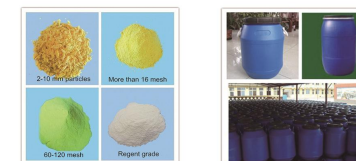
Item	Index
Appearance	Dark brown crystal or flake
Ferric Chloride($FeCl_3$)	$\geq 96.0\%$
Ferrous chloride($FeCl_2$)	$\leq 2.0\%$
Water insoluble	$\leq 1.5\%$

Aluminum Chloride

三氯化铝

CAS No.: 7446-70-0

Molecular Formula: $AlCl_3$



Specification

Item	Index
Appearance	Light yellow, yellow or slight gray particle or powder
Aluminum Chloride ($AlCl_3$)	$\geq 98.50\%$
Water Insoluble	$\geq 0.05\%$
Iron ($FeCl_3$)	$\leq 0.05\%$
Heavy metal (Pb)	$\geq 0.006\%$
Free Aluminum	$\geq 0.010\%$

Hydrochloric Acid

盐酸

CAS No.: 7647-01-0 Class: 8 UN NO.: 1789

Molecular Formula: HCl Appearance: Colourless Transparent Liquid



Items	Index			
	Industry grade	Industry grade	Food grade	Reagent grade
Total acid content(HCL)%	31%	32%	31%	36%
Iron(Fe)%	0.008%	0.002%	0.001%	0.00005%
Ignition residue%	0.10%	0.05%	---	0.00009%
Free chlorine(Cl)%	0.008%	0.004%	---	0.0001%
As%	0.0001%	0.0001%	---	0.000005%
Sulfate(SO ₄ ²⁻)%	0.03%	0.005%	0.007%	0.0002%

ATMP

Amino Trimethylene

Phosphonic Acid

CAS No.: 6419-19-8 Molecular Formula: N(CH₂PO₃H₂)₃



Specification:

Items	Index	
	Index	Solid
Appearance	Clear, Colorless to pale yellow aqueous solution	White crystal powder
Active acid %	50.0 min	95.0 min
Chloride (as Cl ⁻)%	1.0 max	1.0 max
PH (1% water solution)	2.0 max	2.0 max
Fe, mg/L Density (20 °C) g/cm ³	10.0 max	20.0 max
Density (20 °C) g/cm ³	1.30 min	-
Colour APHA (Hazen)	30.0 max	-

DMDAAC

Diallyl Dimethylammonium Chloride

【 Other Name 】 :	Diallyl dimethyl ammonium chloride、DADMAC、DADMAC
【 Product Code 】 :	LYFM-205
【 CAS NO. 】 :	7398-69-8
【 Molecular formula 】 :	C ₈ H ₁₆ NCl
【 Structural formula 】 :	$\begin{array}{c} \text{CH}_2=\text{CH}-\text{CH}_2-\text{N}^+(\text{CH}_3)_2 \\ \\ \text{CH}_2=\text{CH}-\text{CH}_2-\text{Cl}^- \end{array}$
【 Property 】 :	DADMAC is a high purity, aggregated, quaternary ammonium salt and high charge density cationic monomer. Its appearance is colorless and transparent liquid without irritating smell. DMDAAC can be dissolved in water very easily. Molecular Weight:161.5. There is alkenyl double bond in the molecular structure and can form linear homopolymer and all kinds of copolymers by various polymerization reaction. The features of DADMAC are: very stable in normal temperature, unhydrolyzed and noninflammable, low irritation to skins and low toxicity. This product has two specifications: 65% and 60%. It can be used as cationic monomer to produce monopolymer or copolymers with other monomers.



【 Specification 】 :	Item Code	LY FM-205 -60	LY FM-205 -65
	Appearance	Clear transparent liquid	
	Solid content,%	60 ± 1	65 ± 1
	PH	5.0-7.0	
	Color(APHA)	≤ 50	
	NaCl%	≤ 3.0	
【 Package 】 :	200kg PE Drum.		
【 Storage 】 :	Pack and preserve the product in a sealed, cool and dry condition, and avoid contacting strong oxidants. The term of validity: Two years. Transportation: Non-dangerous goods.		
【 Attention 】 :	(1)Your wise advice about our products will be appreciated to improve our qualities and services. (2)There is no fixed pattern for application technology, therefore, the customer should base on your own technology and the equipment conditions to execute the program and utilize the product		

HPMA

Hydrolyzed Polymaleic Anhydride

CAS No.: 26099-09-2

Molecular Formula: $(C_4H_4O_4)_n$ 

Specification:

Items	Index
Appearance	Pale yellow to amber transparent liquid
Solid content %	50.0 min
Bromine value mg/g	50.0 max
pH(1% water solution)	2.0-3.0
Density (20℃) g/cm ³	1.22-1.25

PAA

Polyacrylic Acid

CAS No.: 9003-01-4

Molecular Formula: $[CH_2CH(COOH)]_n$

Specification:

Items	Index	
	Colorless to light yellow transparent liquid	Colorless to light yellow transparent liquid
Appearance		
Solid content %	30.0 min	50.0 min
Free monomer (as AA) %	0.50 max	0.50 max
Density (20℃) g/cm ³	1.10 min	1.20 min
pH(1% water solution)	2.5-4.5	2.5-4.5



HEDP

Hydroxy Ethylidene-1,

1-Diphosphonic Acid

CAS No.: 2809-21-4

Molecular Formula: $C_2H_8O_7P_2$ 

Specification

Items	Index	
	Clear, Colorless to pale yellow aqueous solution	White crystal powder
Active content (HEDP)%	60.0 min	90.0 min
Active content (HEDP · H ₂ O)%	-	98.0 min
Phosphorous acid (as PO ₃ ³⁻)%	1.0 max	0.8 max
Phosphoric acid (as PO ₄ ³⁻)%	0.6 max	0.5 max
Chloride (as Cl ⁻)%	0.01 max	0.01 max
pH (1% water solution)	2.0 max	2.0 max
Density (20℃)g/cm ³	1.40 min	-
Fe, mg/L	10.0 max	5.0 max
Colour APHA (Hazen)	10.0 max	-
Ca sequestration (mg CaCO ₃ /g)	500.0 min	

PAAS

Polyacrylic Acid

Sodium Salt

CAS No.: 9003-04-7

Specification:

Items	Index				
	Colorless to light yellow transparent liquid	Colorless to yellow transparent liquid			White powder
Appearance					
Solid content %	30.0 min	40.0 min	45.0 min	50.0 min	90.0 min
pH(as it)	7.0 max	6.0 ~ 8.0	6.0 ~ 8.0	6.0 ~ 8.0	7.0 ~ 10.0
Density (20℃)g/cm ³	1.15 min	1.20 min	1.25 min	---	---
Free monomer (as AA) %	0.50 max	0.50 max	0.50 max	0.50 max	---



BKC

Benzalkonium Chloride (DDBAC/BKC)
 Dodecyl Dimethyl Benzyl Ammonium Chloride
 Coco Dimethyl Benzyle Ammonium Chloride
 CAS No.: 8001-54-5 or 63449-41-2, 139-07-1
 Molecular Formula: $C_{21}H_{38}NCl$

Application:

As nonoxidizing biocide, dosage of 50–100mg/L is preferred; as sludge remover, 200–300mg/L is preferred, adequate organosilyl anti-foaming agent should be added for this purpose. DDBAC/BKC can be used together with other fungicidal such as isothiazolinones, glutaraldehyde, dithionitrile methane for synergism, but cannot be used together with chlorophenols. If sewage is appeared after thrown of this product in circulating cool water, the sewage should be filtered or blown off in time to prevent their deposit in bottom of collecting tank after froth disappearance. No blending with anion surfactant.

Package and Storage:

200L plastic drum, IBC(1000L), customers' requirement.
 Storage for one year in shady room and dry place.

Specification

Items	Index	
	Colorless to yellowish transparent liquid	Yellowish transparent liquid
Appearance		
Active content %	48-52	78-82
Amine salt %	2.0 max	1.0 max
PH	6.0-8.0(as it)	6.0-8.0(1% water solution)



DTPMPA

Diethylene Triamine Penta
 (Methylene Phosphonic Acid)
 CAS No.: 15827-60-8
 Molecular Formula: $C_5H_{12}O_5N_3P_5$

Application:

DTPMPA can be used as scale and corrosion inhibitor in circulating cool water system and boiler water, and especially in alkali circulating cool water system without additional pH regulation, It can also be used in oilfield refill water, cool water and boiler water with high concentration of barium carbonate. When used alone, little scale sediment is found even none of dispersant is used. DTPMPA can also be used as peroxide stabilizer, chelating agent in woven & dyeing industry, pigment dispersant, microelement's carrying agent in fertilizer and concrete modifier. In addition, DTPMPA is used in papermaking, electroplating, acid cleaning and cosmetics.

Package and Storage:

200L plastic drum, IBC(1000L), customers' requirement.
 Storage for ten months in shady room and dry place.

Specification:

Items	Index
Appearance	Brown transparent liquid
Active acid %	50.0 min
Chloride (as Cl) %	12.0-17.0
Density (20°C) g/cm ³	1.35-1.45
PH (1% water solution)	2.0 max
Fe, mg/L	20.0 max

