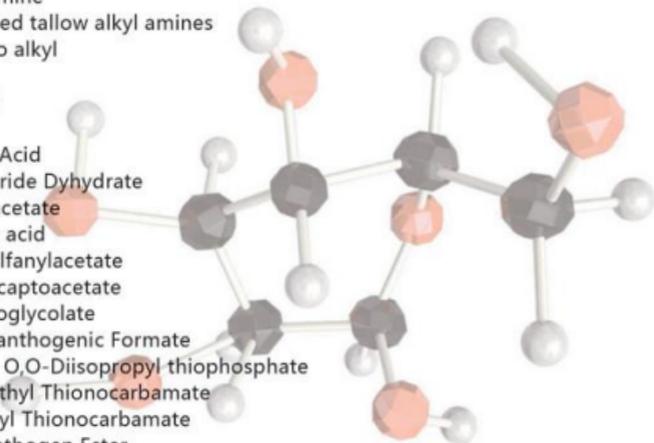


PRODUCT

1. Thiourea
2. Thiourea Dioxide
3. Hydrogen Peroxide
4. Precipitated barium sulfate
5. Sodium N,N-dimethyl dithiocarbamate
6. Alkyl Hydroxamic Acid
7. Sodium Alkyl Hydroxamic Acid
8. Benzoyl Hydroxamic Acid
9. High efficient copper leaching solvent YT84
10. High efficient copper leaching solvent YT973
11. High efficient Nickel-Cobalt Solvent Extraction Reagent YT272
12. Methyl Isobutyl Ketone(MIBK)
13. Octadecanamine
14. Dodecanamine
15. Tetradecylamine
16. Hydrogenated tallow alkyl amines
17. Amines coco alkyl
18. Oleylamine
19. Formic Acid
20. Oxalia Acid
21. Phosphoric Acid
22. Barium chloride Dyhydrate
23. Ethyl Cloroacetate
24. Thioglycolic acid
25. Methyl 2-sulfanylacetate
26. Ethyl 2-mercaptoacetate
27. Isooctyl Thioglycolate
28. Ethyl Ethylxanthogenic Formate
29. Ammonium O,O-Diisopropyl thiophosphate
30. Isobutyl Methyl Thionocarbamate
31. Isobutyl Ehtyl Thionocarbamate
32. Isobutyl Xanthogen Ester
33. Butyl Ethyl Thionocarbamate
34. Ester-105
35. Sodium metabisulfite
36. Anhydrous sodium sulfate
37. Sodium Nitrate
38. Propylene glycol
39. Poly propylene glycol 7249
40. Grinding ball
- 40.1 Forging(rolling) Steel Grinding Balls
- 40.2 Alloyed Cast Iron Grinding Balls
- 40.3 Multi - edge steel balls
- 40.4 Grinding Cylpebs
- 40.5 Grinding Rods



PRODUCT

Collector

1. Sodium/Potassium Ethyl Xanthate
2. Sodium (potassium) Isopropyl xanthate
3. Sodium (potassium) Butyl xanthate
4. Sodium (potassium) Isobutyl xanthate
5. Sodium (potassium) Amyl xanthate
6. dithiocarbamate ES (SN-9 #)
7. Sodium Diethyl Dithiophosphate
8. Sodium Diiso (n-, sec) butyl dithiophosphate
9. Dithiophosphate 25
10. Dithiophosphate 25s
11. Dithiophosphate 31
12. Ammonium Dibutyl Dithiophosphate
13. Dianiline Dithiophosphoric Acid
14. 2801A
15. 208# Aerofloat
16. 404 Aerofloat
17. 242 Aerofloat
18. 241 Aerofloat (No.25 Ammonium Aerofloat)
19. No.31 Aerofloat
20. Isopropyl Ethyl Thionocarbamate
21. Sodium Diisoamyl Dithiophosphate
22. Sodium Carboxymethyl Cellulose(CMC)

Frother

1. Methyl isobutyl carbinol (MIBC)
2. Pine oil (II oil)
3. Isopropyl Ethyl Thionocarbamate

Flocculant

1. Polyacrylamide

Activator

1. Copper Sulphate

Depressant

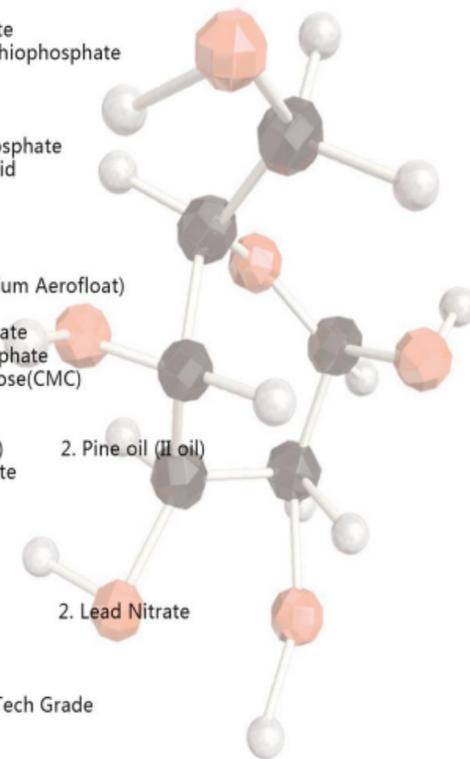
1. Sodium thioglycolate
2. Zinc Sulphate Heptahydrate – Tech Grade

Regulator

1. Soda Ash

Oxidized ore Vulcanizater

1. Sodium Sulphide
2. Sodium Hydrosulfide/Sodium Hydrogen Sulfide-Flakes/Solid



Sodium (potassium) Ethyl xanthate

Formula: C₂H₅OCSSNa (K)

Variety / project	Dry goods	Synthetics
Exterior	Yellow granular particle stick	Yellow granular particle stick
Active ingredients%, ≥	90	85
Free base%, ≤	0.2	0.5
Water and volatile %, ≤	≤4.0	10.0
Solubility	Soluble in water free of impurities	

Purpose: sodium (potassium)ethyl xanthate is a selective good collector, widely used copper, zinc, nickel and containing pyrite flotation of gold and copper gold recovery there are obvious advantages to improve the rate of refractory oxide ores of copper and lead are also able to obtain satisfactory results. Commonly used in the rougher and scavenger flotation process.

Packaging:drums,net weight 110KG-180KG/drum;big bag with plywood box , NW500 , 800-900KG/box;woven bags lined with plastic bags,25-50KG/Bag

Storage and transport: waterproof, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium (potassium) Isopropyl xanthate

Molecular formula: (CH₃)₂CHOCSNa (K)

Exterior	Yellow granular particles stick	Yellow granular particles stick
Active ingredients%, ≥	90	85
Free base%, ≤	0.2	0.5
Water and volatile matter%, ≤	4.0	10.0
Solubility	Soluble in water free of impurities	

Purpose: sodium (potassium)isopropyl xanthate is a collector strong, selective non-ferrous metal sulfide ores better collector, widely used in copper, molybdenum, zinc sulfide flotation of auriferous iron ore flotation collectors better. For gold and copper-gold gold recovery rate has obvious advantages for refractory copper-lead oxide ore can obtain satisfactory results. Commonly used in the rougher and scavenger flotation process.

Packaging: drums, net weight 110KG-180KG/barrel; big bag+wooden, NW 500,800-900KG/box; woven bags lined with plastic bags,25-50KG/Bag

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium (potassium) Butyl xanthate

Formula: CH₃C₃H₆OCSSNa (K)

Variety / project	Dry goods	Synthetics
Exterior	Yellow granular particles stick	Yellow granular particle stick
Active ingredients%, ≥	90	85
Free base%, ≤	0.2	0.5
Water and volatile matter%, ≤	4.0	10.0
Solubility	Soluble in water free of impurities	

Purpose: sodium (potassium)butyl xanthate is a collector of moderate ability, good selectivity collector is suitable for chalcopyrite,sphalerite iron pyrite and sphalerite activated, etc. and can be used from copper sulfide flotation of sulfide ore.

Packaging: drums,net weight 110KG-180KG/barrel;big bag and wooden,NW 500 , 800-900KG/box ; woven bags lined with plastic bags,25-50KG/Bag

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium (potassium) Isobutyl xanthate

Formula: CH₃C₃H₆OCSSNa (K)

Variety / project	Dry goods	Synthetics
Exterior	Yellow granular particles stick	Yellow granular particles stick
Active ingredients%, ≥	90	85
Free base%, ≤	0.2	0.5
Water and volatile matter%, ≤	4.0	10.0
Solubility	Soluble in water free of impurities	

Purpose: sodium (potassium)isobutyl xanthate is a collector ability is applied to the collector of copper, lead, zinc, nickel sulphide ore collector ability for sulfide ores of precious metals is strong, also apply copper, lead ore flotation containing partial oxidation can also be used in hydrometallurgy precipitation agent for rubber vulcanization accelerator.

Packaging: drums, net weight 110KG-180KG/barrel; big bag and wooden, NW 500,800-900KG/box; woven bags lined with plastic bags,25-50KG/Bag

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium (potassium) Amyl xanthate

Formula: $C_5H_{11}OCSSNa$

Variety / project	Dry goods	Synthetics
Exterior	Yellow granular particle stick	Yellow granular particle stick
Active ingredients%, \geq	90	85
Free base%, \leq	0.2	0.5
Water and volatile matter%, \leq	4.0	10.0
Solubility	Soluble in water free of impurities	

Purpose: sodium (potassium) amyl xanthate is a selective collector strong ability weak collector, widely used copper, zinc, nickel and containing pyrite flotation of gold and copper deposits improve gold recovery mine has obvious advantages for refractory copper-lead oxide ore can obtain satisfactory results. Commonly used in the rougher and scavenger flotation process.

Packaging: drums, net weight 110KG-180KG/barrel; big bag and wooden, NW 500,800-900KG/box; woven bags lined with plastic bags, 25-50KG/Bag

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Dithiocarbamate ES (SN-9 #)

Molecular formula: $(C_2H_5)_2NCSSNa \cdot 3H_2O$

Main ingredients: sodium diethyl dithiocarbamate

Test items	Grade A	Grade B
Exterior	White or grayish yellow crystalline powder or loose	White or grayish yellow crystalline powder or loose
Trihydrate diethyl dithiocarbamate content (%)	≥ 94.0	≥ 90.0
Free base%	≤ 0.6	≤ 1.0

Purpose: diethyl dithiocarbamate product is an ideal flotation CU, collector Pb, Zn, Ni and other metal sulfide minerals, compared with the traditional xanthate collector and black medicine, with a strong collector capacity selective flotation speed, minimal dosage of pyrite collecting capacity is weak, even for coarse raw sulphide ore body has a strong collector of used lead-zinc sulfide ore, copper and lead sulphide ore sorting better than when xanthate.

Packaging: drums: NW 130kg OR 170kg / steel drum; bags: Net 50kg / Bag

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium Diethyl Dithiophosphate

Formula: $(C_2H_5O)_2PSSNa$

Item	Specification
Appearance	Yellow Transparent liquid
Mineral substance %, \geq	48~53
PH Value	10~13

Purpose: Medicinal sodium ethyl black for copper, lead, nickel and other metal sulfide ore and gold, silver and other precious metal mineral flotation collectors of gold is better than xanthate flotation, both foaming .

Packing: plastic drum: NW 200KG / barrel; IBC drum: NW 1000KG / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Sodium diiso (n-, sec) butyl dithiophosphate

Formula: $(C_4H_9O)_2PSSNa$

Item	Specification
Appearance	Yellowish Transparent Liquid
Mineral substance %	48~53
Mineral substance %	10~13

Purpose: mainly as an effective collector nonferrous metals, gold, silver and other metal minerals, both weak blistering performance, good selectivity for copper sulfide, lead, nickel sulfide and other difficult to choose a more multi-metal mineral flotation good results. It has a strong ability to collectors and collectors of pyrite weaker, which is widely used in copper mines associated with gold, silver and precious metals and non-ferrous metal mining flotation. Commonly used in lead and zinc flotation separation operations.

Packing: plastic drum: NW 200KG / barrel; IBC drum: NW 1000KG / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Dithiophosphate 25

Formula: $(C_4H_9O)_2PSSNa$

Item	Specification
Appearance	Vandyke Brown Oily Liquid
Mineral substance %	60-70
Mineral substance %	10~13

Purpose: Dithiophosphate 25 both collectors and foaming, it is an effective collector of lead, copper, silver and sulphide ore activated zinc sulfide ore, commonly used in lead and zinc flotation separation operations collector galena., under certain conditions, also has some heavy metal oxide ore collector effect of the product is slightly soluble in water, can be directly added to the mashing tank or ball mill.

Packing: plastic drum: NW 200KG / barrel; IBC drum: NW 1000KG / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Dithiophosphate 25s Formula:(CH₃C₆H₄O)₂PSSNa

major component: sodium dicresyl dithiophosphate

Item	Specification
Appearance	Deep Brown to Black Liquid
Mineral substance %, ≥	49~53
PH Value	10~13

Application: This product is the sodium salt of DITHIOPHOSPHATE 25, soluble in water, and easy to use, mainly used as the collector of non-metals and precious metals. It is an effective collector in the flotation separations of pyritic copper sulfide and zinc-lead sulfide, but it has weak collecting ability for zinc sulfide ore, often used in the differential flotation in the zinc and zinc mines.

Packaging: plastic drum, net weight 200kg/drum & 1000kg IBC drum.

Notice: Keep away from wet, fire and sunshine. Far away from any hot substances and fire.

Dithiophosphate 31 Formula: (C₆H₆NH) 2PSSH

Item	Specification
Appearance	Vandyke Brown Oily Liquid
Mineral substance %	60~70
Density(20°C)g/ml	1.18~1.25
PH Value	10~13

Purposes: as sphalerite, galena, silver flotation collector, gold oxide can be used for flotation and chrysocolla, galena oxidation effects are also collectors, both foaming performance better than the 25th black medicine.

Packaging: plastic drum: NW 200KG / barrel; IBC drum: NW 1000KG / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Ammonium Dibutyl Dithiophosphate

Formula: (C₄H₉O) 2PSS NH₄.

Item	Specification
Appearance	White to light yellow powder
Mineral substance %, ≥	95
PH Value	0.5

Purpose: Suitable for copper, lead, zinc, nickel and other sulphide minerals flotation, there is some blistering weak alkaline pulp collector capacity of pyrite and pyrrhotite weak, good selectivity, collector stronger ability galena, pyrite, galena and separation can, chalcopyrite and pyrite separation is improved, as the use of cyanide-free separation process to create the conditions.

Packaging: metal pail: NW 120kg / barrel; wooden packaging: NW 850kg / box (50kg / bag)

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Dianiline Dithiophosphoric Acid

Major Component: Dianiline Dithiophosphoric Acid



Description: White to slight yellow powder, pungent odour, no soluble in water, density: 0.8-0.85

Use: Dianiline Dithiophosphoric Acid is silver, copper, lead, and the activation of zinc sulfide ore effective collector agent, can also be used for the pyrite flotation activation, it can also be used for nickel, antimony sulfide ore flotation, especially for nickel sulfide ore, refractory sulfide mixed nickel oxide ore and sulfide ore and gangue in the ore, according to the study, the use of black diammonium drugs is conducive to the recovery of platinum, gold, silver this medicine is only a weak startbullous.

Specifications:

Items	Grade 1	Grade 2
Dianiline Dithiophosphoric Acid % =	95.0	90.0
Insoluble % =	0.5	1.0

Packing: 200KG Plastic bucket or 1000KG T bucket

Storage & transport: To be protected from water torrid sunlight and fire.

2801A

Formula: (C₄H₉O) 2PSSNa



Contents: Disulfide and sodium phosphate is equal or greater than 37%, one sulfur and sodium phosphate is equal or greater than 8%, free alkali is from 0.5% to 1.5%

Appearance: faint yellow to amber liquid

PH Value: 11-13

Density (20°C) : 1.10

Forming point of tiltable mud: minus 12 °C

Packaging: plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

Application: nonferrous metals' collecting agent; special effects on copper sulphide gold mine

Precautions:

1. The product is alkalescence aqueous solution and is corrosive to skin and eyes.
2. Rinse off with clear water immediately if touching skin and eyes. Wash eyes with 2% boric acid solution. Prevent accidental swallowing.
3. The product is unflammable. Dry powder, carbon dioxide, sandy soil and water can be used to put out the fire once it burns.
4. This product should be avoided to touch acid. It will decompose once touching acid.

208# Aerofloat

I. Chemical Compositions

1. Main compositions: disulfide and sodium phosphate
2. Molecular Formula: C₄H₅O₂PS₂Na
3. Contents: 47 -53% free alkali: 0.5 - 1.5%

II. Physical Properties

1. Appearance: yellow to light grey liquid
2. PH Value: 10-13
3. Density P30: 1.15
4. Boiling Point: 103°C
5. Forming point of tilttable mud: minus 15°C
6. Freezing Point: minus 29°C

III. Packaging

plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

IV. Application

Good flotation collector of copper, gold and silver.

V. Precautions:

1. The product is alkaline aqueous solution and is corrosive to skin and eyes.
2. Rinse off with clear water immediately if touching skin and eyes. Wash eyes with 2% boric acid solution. Prevent accidental swallowing. It has moderate toxicity.
3. This product should be avoided to touch acid. It will decompose once touching acid.

404 Aerofloat

Properties : faint yellow aqueous solution , odourless

Application: used in the flotation of oxidized ore such as copper, plumbum and zinc. It has good collecting functions to precious metal in alkaline conditions and to gold and iron mine containing gold in

Technical Conditions: the mixed proportion of content is determined according to users' requirements.

PH Value: 9 -12

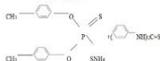
Contents: 30%-35%

Packaging : plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

Storage and transport conditions: waterproof; sunproof; prevent barrels' rupture; Once the medicine is splashed on the skin, wash with water repeatedly.

242 Aerofloat

Structural Formula :



Properties : Claybank to kelly liquid

Application: used in the flotation of polymetallic sulphide ore as well as oxidized gold ore. Mainly used in the flotation of galena and argentiferous galena. It is soluble in water and easy to use and has little smell

Technical conditions: contents 49%-53%

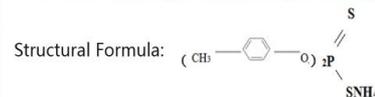
PH Value: 9-12

Packaging: plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

Storage and transport conditions: waterproof; sunproof, prevent barrels' rupture; Once the medicine is splashed on the skin, wash with water repeatedly.

241 Aerofloat (No.25 Ammonium Aerofloat)

Main Components: Xylenol, phosphorodithioic acid ammonium



Properties: brownish black aqueous solution

density (20°C) ;

freezing point: minus 10°C

Application: used in the flotation of polymetallic sulphide ore as well as oxidized gold ore. Mainly used in the flotation of galena and argentiferous galena. It is soluble in water and easy to use and has little smell.

Technical conditions: contents 49%-53%

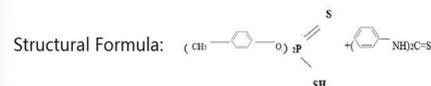
PH Value: 9-12

Packaging: plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

Storage and transport conditions: waterproof, sunproof, prevent barrels' rupture; once the medicine is splashed on the skin, wash with water repeatedly.

No.31 Aerofloat

Main Components: Xylenol disulfide phosphoric acid and diphenylthiourea



Properties: corrosive brownish black oily liquid with pungent

Application: used in the flotation of polymetallic sulphide ore as well as oxidized gold ore. Mainly used in the flotation of galena and argentiferous galena. It is insoluble in water so original medicines will be put into the adjusting groove or ball mill.

Technical conditions: contents 60%-70%

PH Value: 2-3

Packaging: plastic drum; the net weight of a barrel is 200 kilograms; packing specifications can be arranged according to customers' requirements.

Storage and transport conditions: waterproof, fireproof, sunproof, corrosion-proof; once the barrel is broken, bury it with sandy soil and do not flush it with water. If it is splashed on skin, wash with suds repeatedly.

SPECIFICATION OF SODIUM CARBOXYMETHYL CELLULOSE

Molecular formula: (CH₃)₂CHOCH(S)NHC₂H₅

Product type	Appearance	Viscosity of 2% solution mPa.s(25°C Brookfield)	Degree of substitution	purity %	ph(25°C) 1% solution	Loss on drying(H ₂ O) %
YTCEL 98A	White Powder	100-300	≥0.8	98	6.5-8.0	≤10.0
YTCEL 98B		200-500		98	6.5-8.0	
YTCEL 98C	/Yellowish	500-800		98	6.5-8.0	
YTCEL 98D	Granular	800-1500		≥90	6.5-8.0	
YTCEL 90		100-500		≥70	8.0-11.0	

Commodity Name: Sodium Carboxymethyl Cellulose

CAS No.: 【9004-32-4】

Synonyms: Carboxymethyl Cellulose, CMC, Sodium CMC, Na-CMC, Cellulose Gum.

HS Code: 39123100

Application: Mining Flotation Industry

Description:

YTCEL was used in mining industry as Pellet Binder and Flotation Depressant.

YTCEL is a composition of the binder for mineral dust shaping, and the binder is an indispensable ingredient in pellet forming. It can improve the character of wet pellet, dry pellet and calcinated pellet. Due to its good binding property and pellet forming property, the green pellet with CMC has excellent antiknock performance, high compressive strength and dropping resistance. It can also increase the grade of pellet.

YTCEL is adjusting agent in Mining Flotation process, it can used as depressant for talc and gangue minerals in base metal ores.

Mostly Popular Specifications for Mining Flotation Industry

Packing: 25kg kraft paper bag with PE inner, or other packing as clients request.

Storage: Store in a cool, dry, clean, ventilated environment. Temperature Max. 40°C, with a relative humidity ≤80%.

Sodium Diisoamyl Dithiophosphate

Structure formula: CC(C)C(C)C(S)(=S)P(=O)([Na])

Main Content: Sodium Diisoamyl Dithiophosphate

Description: Brown liquid, slightly soluble in water density(20°C)1.09-1.10, PH 10-13

Principal uses: It is an effective collector for gold ore and silver, copper, zinc sulfide ores. It display weak collective power to pyrite in alkaline circuit. This reagent has little frothing property.

Specification: Sodium Diisoamyl Dithiophosphate content: 49-53%

Packing: 200KG Plastic bucket or 1000KG T bucket.

Storage & transport: To be protected from water torrid sunlight and fire.

Methyl isobutyl carbinol (MIBC)

Formula: (CH₃)₂CHCH₂CH(OH)CH₃

Item	Specification	
Appearance	Color Transoarent liquid	
Methyl Isobutyl Carbinol %	≥99	≥98
Density(20°C)g/ml	≥0.805	
Not Volatile matter mg/100ml	≤5	
Mosisture(%)	≤0.1	≥0.15
Acidity(%)	≤0.005	

Purpose: In the lead-zinc around the world, fine grade copper ore and molybdenum sulfide ore and non-ferrous metallic mineral excellent foaming agent is mainly used for non-ferrous oxide ores or mud containing a large quantity of foaming agent during the separation. copper is widely used in gold processing, to improve the quality of concentrate particularly effective.

Features: selectivity, activity is good, thin and brittle and sticky foam generation, anti-foaming easy, no collector resistance, with less.

Packing: steel drum: NW 165KG / barrel; IBC drum: NW 830KG/IBC barrel.

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Pine oil (II oil)

Item	Specification
Appearance	Faint yellow to brown oily liquid
Terpene alcohols(%)	≥50
Medical impurity(%)	≤0.5
Mosisture (%)	≤0.7
Density(20°C)g/ml	0.855

Purpose: pine oil is widely used in a variety of metal or non-metallic ore flotation operations, mainly for a variety of sulfide ore such as copper, lead, zinc and iron, and various non-sulfide flotation. It also has a collector resistance, especially for talc, sulfur, graphite, molybdenite and coal and other minerals are relatively easy to float collector obvious effect. Pine oil formed in the flotation operation more stable than other foam frother. Non-ferrous metals as an excellent foaming agent, has been widely used at home and abroad, with less foam concentrate grade characteristics. Adaptable, thin and dense foam, blistering fast defoaming speed is fast, easy to operate, no effect on the subsequent flotation. Suitable for multi-metal ore sorting.

Packing: Steel drum: NW 180kg / barrel; IBC drum: NW 1000kg / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Isopropyl Ethyl Thionocarbamate

Molecular formula: $(CH_3)_2CHOC(S)NHC_2H_5$

Item	Specification
Active Component	≥95
Isopropyl Alcohol(%)	≤2.5
Diethyl Thiourea(%)	≤0.1
Moisture & Volatile	≤0.1

Purpose: It is a good performance choice sulphide ore collector, the collector role of pyrite, chalcocite and sphalerite stronger activation of pyrite does not float for sorting copper, lead, selective collector and zinc sulfide ore, can reduce the amount of pyrite suppression of lime required, with less pollution, because insoluble in water, it can be added to the ball mill use is appropriate.

Packing: plastic drum: NW 200KG / barrel, net weight 1000KG/IBC barrel.

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Polyacrylamide

Item Index	Non-ion type	Anion type	Cation type
Appearance	white or slight yellow powdery granules	white or slight yellow powdery granules	white or slight yellow powdery granules
Solid ≥%	90	90	90
Molecular weight (10k)	800-1500	800-2300	800-1200
Free monomer ≤%	0.5	0.5	0.5
Dissolved speed (hrs)	1-5	0.5-2	0.5-2
Degree of hydrolysis%	≤5	20-25	20-25

Properties: Polyacrylamide (PAM) is one kind of glass-like solid.

Following your demands, Polyacrylamide can be made into 4 types: non-ion, anion, cation and mixture of cation and anion

Uses: Polyacrylamide is an important water-soluble polymer, and the combination advantages of flocculation, thickening, shearing, drop resistance and dispersibility; thus, it is widely used in oil drilling, mineral processing, metallurgy, chemicals, paper, textile, sugar, medicine, environmental protection, building materials, agricultural production and so on.

Storage, transportation and cautions: Polyacrylamide is a non-toxic matter. The residual acrylamide monomer in Polyacrylamide is toxic, so it should be used in food with cautions. Avoid moisture.

Packing: dry powder 25kg/bag; plastic bag lined woven bag or kraft paper bag.

Product Index: (GB/T17514-2008) Polyacrylamide dry powder

Copper Sulphate

Product Name	Copper Sulphate		
Molecular Formula	$CuSO_4 \cdot 5H_2O$		
Character	Celluloid trimetric crystal or powder in blue or colorless, it will be efflorescent slowly in dry open air and the surface will become white powder heated to 45°C, loss one crystal water; at 102°C, loss two crystal water; at 113°C, loss 4 crystal water, become white Copper Sulphate Mono; At 258°C, loss all crystal water, become white-green copper sulphate anhydrous in powder, at 650°C, it will decompose to Cupric oxide powder in black and liberate SO_3 . It is soluble in water, its liquid reacts with weak acid, slightly soluble in methanol, insoluble in ethanol anhydrous.		
Specification	TECHNICAL GRADE	FEED GRADE	FERTILIZER GRADE
	PURITY 98%MIN	PURITY 98%MIN	PURITY 98%MIN
	CU 25%MIN	CU 25%MIN	CU 25%MIN
	PB 50PPM MAX	Pb 20PPM MAX	PB 20PPM MAX
	MOISTURE 1%MAX	AS 10PPM MAX	AS 10PPM MAX
		CD 5PPM MAX	CD 5PPM MAX
	SIZE:1-4MM,2-5MM OR 20MM PLUS		
Usage:	As a mordant for cotton and silk; used to produce green and blue pigment; used as insecticide, bactericide for water, antiseptics for wood, catalyst for tanning, electrocopper, battery, carving and so on; used in mining industry and as raw materials of other chemicals. In agrochemistry, it is used as a pesticide, its liquid mixed with lime milk in proportioning is an insecticide for fruit trees and cotton and it is also used to produce other pesticides (containing copper) preventing tan spotting, smut-fungi of barley & gibberella of wheat; used to produce trace-element fertilizer and as feed supplement.		
Packing:	Packing in 25/1000/1250kgs pp bags.		

Lead Nitrate

Product Name :	Lead Nitrate	
Molecular Formula:	Pb(NO ₃) ₂	
Relative Molecular Weight:	331.20	
Character:	white crystalline, relative density 4.53(20℃), easily soluble in water, liquid ammonia, light dissolve in ethyl alcohol, not dissolve in concentrated nitrate acid, solubility 56.5g/100g water (20℃). Dry lead nitrate decompose at 205-223℃. Damp lead nitrate decompose at 100℃, first become Pb(NO ₃) ₂ · PbO, go on heating, then become PbO. It is strong oxidant, putting together with organics will lead it burning, noxious.	
Usage:	Used as medical astringent; tanning material for leather-making; dyeing mordant; photograph promoting agent; flotation for ore; chemical reagents; and also used for making fireworks, match, and other lead salts.	
Specification:	Purity	99% min
	Cu	0.005% max
	Fe	0.002% max
	Water insolubles	0.05% max
	HNO ₃	0.2% max
	Moisture	1.5% max
	Note	We can produce as per user's requirements
Packing:	Paking in 25/1000kgs pp bags,palletised and shrinkwrapped on seaworthy pallets.	
The above specification is for mining industry.We can also produce higher grade for pigment and ammunitions. If you have special requirement in quality,pls donot hesitate to contact us.		

Sodium thioglycolate

Formula: HSCH₂COONa

Item	Specification
Appearance	Light Yellow to dark redliquid
Mineral substance %	≥20 OR 40
PH Value	7~11

Application: mainly used for the separation of copper and molybdenum copper sulfide and pyrite, galena inhibitor, with less sodium sulfide and sodium cyanide main alte ative for non-cyanide separation provided the conditions, environmentally friendly and safe in general. the amount of sodium thioglycolate 50 g / t ore, the actual amount of the amount subject to the laboratory.

Packing: plastic drum: NW 250kg / barrel; IBC drum: NW 1000kg / barrel

Storage and transport: moisture, waterproof, anti-exposure. Away from any hot objects or fire.

Zinc Sulphate Heptahydrate – Tech Grade

Product Name: Zinc Sulphate Monohydrate – Tech Grade / Zinc Sulphate Heptahydrate – Tech Grade

Main Components (formula): ZnSO₄.H₂O / ZnSO₄.7H₂O

Appearance: White crystal powder. soluble in water, slightly soluble in alcohol, insoluble in acetone.

Application: Used for raw material making artificial fiber, pesticide, dyestuff, electroplate and zinc.

Specification :

Item	Specification	
	ZnSO ₄ .H ₂ O	ZnSO ₄ .7H ₂ O
Zn %≥	35min	21.5min
Pb ppm≥	10max	30min
Cd ppm ≤	10max	10max
As ppm ≤	5max	5max
STANDARD		

Package: a woven bag with plastic inner,25KG ± 0.2KG net each, or packed as per customer's request.

Soda Ash Light / Sodium Carbonate Light 99.2%min

1. PRODUCT DESCRIPTION

Soda ash light is a white high purity anhydrous sodium carbonate 99.2~100%, available in powder forms with 80~120 mesh. It is produce of Solvay process and Hou's process both.

2. INSPECTION REPORT: Quality Standard: GB210.1-2004

3. SODA ASH WIDE APPLICATIONS:

Soda ash light is a chemical material used in an extremely broad range of commercial and industrial applications:

Glass Industries- Flat glass, Fiber glass, Container glass;

Detergent- Powder detergents for laundry and dish washing, Direct soaking of clothes, dish-washing, floor washing and for degreasing operations

Textile and Dyeing

Environment- Air emission control, Water treatment, Waste-water treatment;

A large number of chemical reactions

Metallurgy- Used in the process of a large number of non-ferrous metals\

4. SODA ASH LIGHT PACKING & LOADING

Packing 1: (Solvay Process)- 40kg in PP bag with PE liner inside, white PP bag with black shipping marks printed on.- 750kg or 1000kg in jumbo bulk bag with PE liner inside.

Packing 2: (Hou's Process)- 50kg in PP bag with PE liner inside, white PP bag with black

Sodium Sulphide

H.S.CODE: 28301010

CAS NO.: 1313-82-2

Molecular formula: Na₂S

Properties: brown red or yellow, easy to dissolve in water.

Specification:

Sodium sulfide	
Sodium sulfide/Na ₂ S(%)	60.0Min
Fe/Fe(%)	0.006%Max
Water insolubles/Water Insoluble(%)	0.4Max

Use: used to produce sulfuration dye or dye intermediate, reducer, etc.It is widely used in dye industrial, rubber industry, etc.

Packing: 25kgs PP woven bags;1000kgs PP woven bags;

Sodium Hydrosulfide/Sodium Hydrogen Sulfide-Flakes/Solid

Molecular Formula:	NaHS	
CAS Number:	16721-80-5	
Appearance:	Brownish yellow flakes, easy to be deliquesced, it will decomposed and release hydrogen disulfide at its melting point, soluble in water and alcohols, its water solution is strongly alkaline, it will generate hydrogen disulfide when reacting with acids.	
Specifications:		
Content	70%min	72%min
Sodium sulphide	3%max	2%max
Ferrum	0.003%max	0.003%max
Uses	Used in organic synthetic and preparation of sulfur intermediates and auxiliaries in dyes industry. Not only being used in hair removal and tanning in leather industry, but also in wastewater treatment. For the chemical fertilizer industry, it can take off the sulfur which is one of compositions for monomer desulfurizer of the activated carbon, and also are the raw material for manufacturing the Ethanethiol and semi-finished ammonium sulphide. A large number of In mining industry, a large number of NaHS are used for copper beneficiation. Staining for sulfite in Man-made fibers industry also is one of NaHS purposes.	
Packing	Flake: 25kg/woven bag internal with plastic bag or 900kg/one ton bag Solid: 150kg or 320kg/iron drum	
HS Code	28301090	
Hazard	8	
Storage:	In cool conditions, keep away from wet, heat and sunlight	