

Surfactant series

Alcohol ether series

The the ant 0-25

[Similar product name] Pingping plus 0-25, X-102,
Fatty alcohol ethoxylates, etc. [Chemical composition]
fatty alcohol and ethylene oxide condensation

[Type] Nonionic

[HLB value] 16~17 (theoretical value, for reference)

CAS number: 9002-

92-10 [Technical Index]

Appearance: white sheet

Color: 30, Pt-Co

PH: 5.5~7.0 (1% aqueous solution)

Tidity point: 91.0~96.0°C (0.5g dye 0 dissolved in 5% NaCl solution)

Calcium soap dispersion force: 30.0g

Water content: 1.0%

[Performance and Application]

- 1, in the printing and dyeing industry, the use is very wide, used as direct dye, reducing dye, acid dye, disperse dye and cationic dye, can also be used as diffusion agent, peeling agent, the general dosage of 0.2~1g / L, the effect is significant, increase the staining fastness, color bright uniform. It can remove the dirt scattered on the fabric, improve the decontamination force of ABS-Na synthetic detergent, and reduce the electrostatic effect of the fabric.
- 2, in the process of metal processing, as a cleaning agent, especially easy to remove the surface oil, is conducive to the processing of the next process. It can also be used as a solubilizer (brightening agent).
- 3, in the glass fiber industry, as an emulsifier, produce a delicate and uniform lubricating oil emulsion, reduce the breaking rate of glass wire, put an end to the phenomenon of hair.
- 4, in the general industry, o / w emulsifier, dynamic, planting, mineral oil has excellent emulsifying performance, the emulsion is extremely stable. For example, it is used as a component of synthetic fiber spinning oil such as polyester; as an emulsion in latex industry and oil drilling fluid; and it has unique emulsifying properties for stearic acid, paraffin, mineral oil, etc.; it is an emulsifier of polymer emulsion polymerization.
- 5, in agriculture, as a seed penetration agent to improve the penetration of pesticides and seed germination rate.

[Packaging and Storage and Transportation]

20 kg woven bag packaging.

This product is non-toxic and nonflammable, and is stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

The emulsifier, the O series

[Similar product name] Pingping plus O

[Chemical composition] Adipose alcohol and ethylene oxide condensation

[Type] Nonionic

[Models] O-3, O-5, O-8, O-9, O-10, O-15,
O-20, O-30 CAS No. : 9002-92-10

[qualification]

specifications	Appearance (25°C)	colour and lustr e Pt- Co	Turbpoint °C (1% aqueous solution)	Hydroxy l values of mgKOH / g	M str (%)	pH price (1% aqueous solution)	HLB price
O-3	Milk white paste	≤20	—	145±4	≤1.0	5.0~7.0	6~7
O-5	Milk white paste	≤20	—	115±4	≤1.0	5.0~7.0	8.5~9.5
O-8	Milk white paste	≤20	—	92±3	≤1.0	5.0~7.0	11~12
O-9	Milk white solid	≤20	—	86±3	≤1.0	5.0~7.0	12~12.5
O-10	Milk white solid	≤20	72~76	—	≤1.0	5.0~7.0	12.5~13
O-15	Milk white solid	≤20	81~85*	—	≤1.0	5.0~7.0	14~15
O-20	Milk white solid	≤30	88~91*	—	≤1.0	5.0~7.0	15~16
O-30	Milk white solid	≤40	—	36±2	≤1.0	5.0~7.0	16~17

Note: * indicates the determination in 5%NaCl solution.

[Performance and Application]

1. O-3 and O-5 are easily soluble in oil and organic solvents. It can be used as a W / O type emulsifier, chemical fiber softener and silk retreatment agent.
2. O-8, O-9, O-10, O-15, O-20, and O-30 are easily soluble in water and organic solvents, and are stable to acid, alkali, and hard water. With good wetting, emulsifying, clean washing properties.
3. O-8, O-9 can be used as printing and dyeing industry uniform dyeing agent, slow dyeing agent, glass fiber industry emulsification agent, chemical fiber spinning oil agent component, cosmetics and ointment production of emulsifier, preparation of household and industrial cleaning agent. O-10 is one component of various chemical fiber spinning oil with good spinnability; emulsifier in general industry, has good emulsifying properties for moving, planting and mineral oil and very stable emulsion; It can also be used for preparing household detergent, industrial detergent and metal cleaner; wetting agent in textile industry; and one component of emulsifier in pesticide industry. O-15 has good cooking performance; in printing and dyeing industry as dyeing agent, slow dyeing agent, enhance dyeing fastness, bright and beautiful; in the process as a cleaning agent in metal processing, easy to remove surface oil, easy to process processing; general industry as emulsifier, can produce extremely stable emulsion. O-20 has properties like diffusion, uniform staining, wetting and foaming, Have a good affinity for the direct dyes and the reducing dyes; In the textile industry as all kinds of dyes, diffusion agent, peeling agent, slow dyeing agent, printing semi-dyeing agent, whitening agent, color agent; This product has unique emulsifying properties for stearic acid, paraffin acid, mineral oil, etc., and can be used as an emulsifier in the latex industry, high polymer emulsion polymerization reaction and glass fiber lubricating oil; This

product can effectively remove the dye decomposition of the dirt gathered on the fabric, Reduce the electrostatic effect of fabrics; Use as polyester and other synthetic fiber spinning agent; In chemical production as paint paste A, adhesive FD and rubber BA and other products; Used as raw hair detergent and pesticide penetrant for fruit trees.

4. O-30 can be mixed with all kinds of surfactants, with good dispersion and emulsifying properties, and is used as industrial uniform dyeing agent, slow dyeing agent, glass fiber emulsifier and industrial cleaning agent.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging; 20 kg woven bag.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Emulsifier-based MOA series

[Similar product name] Emulsifier AEO series

[Chemical composition] fatty

alcohol and ethylene oxide

condensate [type] non-ionic

[Model] MOA-3, MOA-4, MOA-5, MOA-7, MOA-9, MOA-15, MOA-20, MOA-23

[qualification]

specific ations	Appea rance (25°C)	colou r and lustr e Pt- Co	Turbpoint °C (1% aqueous solution)	Hydroxy l value of mgKOH / g	M str (%)	pH price (1% aqueous solution)	HLB price
MOA-3	Colorless transparent liquid	≤20	—	170~180	≤1.0	5.0~7.0	6~7
MOA-4	Colorless transparent liquid	≤20	—	150~160	≤1.0	5.0~7.0	9~10
MOA-5	Colorless transparent liquid	≤20	—	130~140	≤1.0	5.0~7.0	10~11
MOA-7	Colorless transparent liquid	≤20	50~70	—	≤1.0	5.0~7.0	12~13
MOA-9	Milk white paste	≤20	70~95	—	≤1.0	5.0~7.0	13~14
MOA-15	Milk white paste	≤20	80~88*	—	≤1.0	5.0~7.0	15~16
MOA-20	Milk white solid	≤20	89~93*	—	≤1.0	5.0~7.0	16~17
MOA-23	Milk white solid	≤20	>100	—	≤1.0	5.0~7.0	17~18

Note: * indicates the
determination in 5%NaCl
solution. [Performance and
Application]

- 1, MOA-3, MOA-4, MOA-5 soluble in oil and polar solvent, water diffusion, with good emulsification properties, as w / o type emulsifier, emulsifying for mineral oil, aliphatic solvents, PVC plastic solvent adhesive agent, widely used in chemical fiber oil, MOA-3 is the main raw material for AES production, MOA-4 can be used as silicone and hydrocarbon emulsifier, dry cleaning agent.
- MOA-2. MOA-7 and MOA-9 are easily soluble in water, have excellent emulsification, clean washing and wetting performance, such as wool detergent, skim agent and fabric; as an important part of liquid detergent; emulsifier in cosmetics and ointment production; and have excellent emulsifying, dispersion and wetting properties for mineral oil, motor and plant oil; and also as emulsifier of glass fiber extraction oil.
3. MOA-15, MOA-20, MOA-23 as wool degreasing agent, fabric detergent, liquid detergent, hydrocarbon solvent and general industrial emulsifier, essential oil solvent, wetting agent, and brightening agent in electric industry. MOA-20 in the printing and dyeing industry as a uniform dyeing agent, the effect is remarkable, and has a good cooking performance, in the

dyeing industry with this auxiliary agent can not only achieve the purpose of slow dyeing, uniform dyeing, but also can enhance the firmness of dyeing, coloring bright, beautiful.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Emulsifier E1300 series

[Similar product name] isomeric alcohol ether E-1300 series

[chemical composition] isomeric alcohol and ethylene oxide condensate [type] non-ion

[Model] E-1303, E-1306, E-1310, E-1312, E-1340, E-1360

[qualification]

specific ations	Appearance (25°C)	hydroxyl value (mgKOH/g)	Shuif en (%)	pH price (1% aqueous solution)	HLB value (theoretic al value)
E-1303	Colorless to pale yellow liquid	170±5	≤1.0	5.0~7.0	8
E-1306	Colorless to pale yellow liquid	120±5	≤1.0	5.0~7.0	11.4
E-1310	Colorless to pale yellow liquid or cream paste	88±5	≤1.0	5.0~7.0	13.7
E-1312	White paste	78±5	≤1.0	5.0~7.0	14.5
E-1340	White to pale yellow flakes	25-31	≤1.0	5.0~7.0	18.0
E-1360	White to pale yellow flakes	18-21	≤1.0	5.0~7.0	18.6

[Performance and Application]

1. This series of products are easy to disperse or soluble in water, with excellent wettability, permeability and emulsibility. Add a small amount of this product to the pretreatment formula, you can obtain excellent concise effect.
- 2, in the textile industry and leather processing industry, used as defat agent, net lotion, emulsifier and finishing agent components.
3. It has a special emulsifying effect on aminosilicone oil and dimethylsilicone oil, and can improve the effect after use. It is less than the general silicone oil emulsifier, more stable emulsion, and has a strong penetration, which can penetrate into the interior of the fiber, so as to obtain a more satisfactory soft feel.
- 4, as metal processing additives, multi-functional detergent, decontamination and increasing solvent, home care cleaning agent, vehicles, ultrasonic cleaning agent.
5. This product does not contain benzene ring structure, so the product prepared has become a new generation of environmental protection products.
- 6, the product into 80~90% concentration, that is, become a uniform fluid, more convenient to use, the effect is better.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket, 25 kg cow leather bag packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Phenol ether series

The emulsifier OP series

[Chemical composition] alkyl
phenol and ethylene oxide
condensate [type] non-ionic

【 CAS No. 】 26636-32-8

[Specifications] OP-4, 7, 9, 10, 13, 15, 21, 30, 40, 50

[Technical Indicators]

specifications	Appearance (25°C)	Turbidity °C (1% aqueous solution)	hydroxyl value (mgKOH/g)	M str (%)	pH price (1% aqueous solution)	HLB price
OP-4	Colorless to pale yellow with oily material	—	147±5	≤1.0	5.0-7.0	8~8.6
OP-7	Colorless to pale yellow with oily material	—	110±5	≤1.0	5.0-7.0	11.5~12.5
OP-9	Colorless to pale yellow with oily material	60~65	93±3	≤1.0	5.0-7.0	12.7~13.4
OP-10	Colorless to pale yellow with oily material	68~78	87±5	≤1.0	5.0-7.0	13.3~14
OP-13	Milk white to light yellow paste	87~92	72±3	≤1.0	5.0-7.0	~14
OP-15	Milk white to pale yellow paste or solid	94~99	65±3	≤1.0	5.0-7.0	~15
OP-21	Milk white to pale yellow paste or solid	>100	52±3	≤1.0	5.0-7.0	~16
OP-30	Crewhite to yellowish solid	>100	37±3	≤1.0	5.0-7.0	~17
OP-40	Crewhite to yellowish solid	>100	31±3	≤1.0	5.0-7.0	~18
OP-50	Crewhite to yellowish solid	>100	24±2	≤1.0	5.0-7.0	~18.5

[Performance and Application]

specifications	Performance and application
OP-4 OP-7	1, easy to dissolve in oil and other organic solvents, the water is dispersed, with good emulsifying performance, the general industry as W / O emulsifier; 2, generally used as textile, metal processing industry cleaning agent, polyacrylonitrile soap cooking agent, cationic dye homogenizer, can also be used as the antistatic agent of plastic products conveyor belt.
OP-9 OP-10	1, easy to dissolve in water, acid, alkali, salt, hard water resistance, with good emulsification, uniform dyeing, wetting, diffusion, net washing performance, can be mixed with all kinds of surfactants, dye primary shrinkage body; 2, used as printing and dyeing agent, diffusion agent, leather, wool defat agent, crude oil, fuel oil emulsifier, oil acidification osmotic agent, styrene emulsion, emulsion polymerization emulsifying agent, glass fiber textile lubricant, emulsifier, cosmetics for emulsification, washing, infiltration, wetting agent.

OP-13	1, easily soluble in water, acid, alkali, salt, hard water resistance, with good emulsification, wetting, diffusion, solubilization performance; 2, used as oilfield emulsifier, solvent, preservative, emulsion breaker, synthetic latex stabilizer, high concentration electrolyte wetting agent, cosmetic emulsifier.
OP-15	
OP-21	
OP-30	
OP-40	
OP-50	

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

ester ether series

The emulsifier SG series

[Chemical composition]

Poloxyethylene stearate

lipid [type] non-ion

【 CAS NO. 】:9005-00-9

[Specifications] SG-6, SG-9, SG-10, SG-12, SG-20, SG-40, SG-50, SG-

100 [Technical Indicators]

specifications	surface (25℃)	colour and lustr e Pt- Co	Saponific ation value of mgKOH / g	The numbe r of water mL	M str (%)	pH price (1% aqueous solution)	HLB price
SG-6	Milk white paste	≤40	102~118	4~8	≤1.0	5.0~7.0	9~10
SG-9	Milk white solid	≤40	79~89	—	≤1.0	5.0~7.0	~12
SG-10	Milk white solid	≤40	75~85	—	≤1.0	5.0~7.0	12~13
SG-12	Milk white solid	≤40	66~72	—	≤1.0	5.0~7.0	12.5~13.5
SG-20	Milk white solid	≤40	46~52	—	≤1.0	5.0~7.0	14.5~15.5
SG-40	Milk white solid	≤40	23~33	—	≤1.0	5.0~7.0	16.5~17.5
SG-50	Milk white solid	≤40	20~24	—	≤1.0	5.0~7.0	17.5~18
SG-100	Milk white solid	≤40	10~14	—	≤1.0	5.0~7.0	18.5~19

[Performance and Application]

specifications	Performance and application
SG-6	<p>1, in the water, with good softness and lubrication.</p> <p>2. In the synthetic fiber industry, it is one of the components of chemical fiber spinning oil agent, which can be used as a softener for fiber processing, with good antistatic and lubricity. Make softener to reduce the phenomenon and improve the feel of the fabric.</p> <p>3, in cosmetics as an emulsifier, the general dosage of 1~3%.</p> <p>4, used as an emulsifier, used for paraffin emulsification. As an emulsifying agent in lubricating oil production.</p>
SG-9 SG-10	<p>1, showed a diffusion shape in water, with good emulsification, net washing efficiency.</p> <p>2, in cosmetics, ointment, ointment and other products as emulsifier, and thickening effect.</p> <p>3, in the textile industry, the emulsifier and oil agent used for synthetic fiber finishing have softness and antistatic properties.</p> <p>4, as a thickener and stabilizer in the paper starch coating.</p> <p>5. Lubricant used for multiple transmission lines in cable pipelines.</p>

SG-12	1, soluble in ethanol and other solvents, the water is dispersed, stable for a variety of electrolytes, with good emulsified, soft, antistatic properties.
SG-20	2, textile industry as soft agent, antistatic agent, cosmetics, food, pharmaceutical industry as emulsifier, solvent, can also be used in cardboard, construction board, waterproof wax emulsification.
SG-40	1, soluble in water, ethanol, carbon tetrachloride, etc., with good emulsification, wetting, complexation and thickening properties.
SG-50	2, pharmaceutical industry as emulsifier, solubilizer, ointment matrix, emulsifier, detergent in cosmetics industry, textile industry as softener agent, antistatic agent, emulsifying additive in food industry.
SG-100	

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The emulsifier LAE series

[Chemical composition] Polyoxylithylene fatty acid ester

[Type] Nonionic

[Specifications] LAE-4, LAE-9,

LAE-24 [CAS NO.] 9004-81-3

[qualification]

specifications	Appearance (25°C)	colour and lustre Pt-Co	Saponification value of mgKOH / g	M str (%)	pH price (1% aqueous solution)	HLB price
LAE-4	Colorless clear oil substance	≤60	145~155	≤1.0	5.0~7.0	9~10
LAE-9	Colorless clear oil to milky cream paste	≤60	Tidity point: 30~45	≤1.0	5.0~7.0	13~14
LAE-24	Milk white paste	≤20	42~48	≤1.0	5.0~7.0	16~17

[Performance and Application]

specifications	Performance and application
LAE-4	1, soluble in alcohols, oleic acids, etc., the water is dispersed, stable in medium acid, alkali, multiple electrolytes, with good emulsification, wetting, solubilization, dispersion, plasticity properties. 2, pharmaceutical industry as emulsifier, solvent, dispersing agent, spice industry as aromatic oil emulsifier, emulsifier, cosmetics as emulsifier, net washing agent, also as pesticide emulsifier, wetting agent.
LAE-9	1, soluble in water, with good emulsifying and net washing properties. 2. In the textile industry, as one of the fiber textile oil component, with good binding, binding, soft, smooth, antistatic properties. 3, the general industry as emulsifier, net lotion.
LAE-24	Solsoluble in alcohol and water, mainly used as spice solvent, can also be used as emulsifier, dispersant, wetting agent.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Emulsifier A (OEO) series

[Similar product name] Emulsifier OEO series

[Chemical composition] fatty acids

polyoxyethylene ester oleate

polyoxyethylene ether [Specification] A-

103, A-105, A-110, A-115

[Type] Nonionic

[CAS NO.] 9004-96-0

[Technical Index]

specific ations	Appea rance (25°C)	Saponifi cation value of mgKOH / g	M str (%)	pH price (1% aqueous solution)	HLB price
A-103	Light yellow oil	130~140	≤1.0	5.0~7.0	~6.5
A-105	Light yellow oil	107~117	≤1.0	5.0~7.0	8.5~9.5
A-110	Yellow oil	65~75	≤1.0	5.0~7.0	12~13
A-115	Yellow oil	55~65	≤1.0	5.0~7.0	~14

[Performance and Application]

specific ations	Performance and application
A-103 A-105	<p>1. This product is dispersed in water, dissolved in hot ethanol, hot oil, benzene and xylene and other solvents, and is widely used as a w / o type emulsifier.</p> <p>2, in the textile, is one of the composition of lubricant (mineral oil, fat oil, solvent oil-soluble emulsifier). It is an antistatic agent for textile processing and production of synthetic fiber, and has good compatibility.</p> <p>3, in the leather, is the tanned leather softener, lubricant.</p> <p>4, in the ink manufacturing, used as an emulsifier. When the pigment oil preparation ink, adding this product can make the oil quickly emulsification. Easy to knead, rolling pulp, can improve the ink finished product luster and lubrication liquidity.</p> <p>5, in the metal processing, used as the emulsifier of cutting oil, metal cleaning agent and detergent solvent emulsifier and dispersant.</p> <p>6, in pesticides, used as an emulsifier of pesticides.</p>
A-110 A-115	<p>1, Dispersion in water, into white emulsion, easily soluble in mineral oil, soluble in benzene, with good emulsifying, wetting, antistatic, plasticizing, rust resistance performance.</p> <p>2. Used as special detergent and dyeing agent in textile industry, as emulsifier in leather processing, as pigment and ink grinding agent in paint and printing industry, as paper relubricant, in rubber industry, as plasticizer in plastics industry; also as pesticide, glass and paraffin emulsifier.</p>

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

The emulsifier EL series Castor oil ethoxylates

[Chemical composition] castor oil /
hydrogenated castor oil and ethylene oxide
condensate [type] nonionic

【 CAS NO. 】 61791-12-6

[Specifications] EL-10, 12, 20, 30, 40, 60, 80, 90, HEL-20, 40

[Technical Targets]

specifications	Appearance (25°C)	Saponification value of mgKOH / g	cloud point (1% aqueous solution)	M str (%)	pH price (1% aqueous solution)	HLB price
EL-10	Light yellow transparent oil substance	110~130	—	≤1.0	5.0~7.0	6~7
EL-12	Light yellow transparent oil substance	110~120	—	≤1.0	5.0~7.0	6.5~7.5
EL-20	Light yellow transparent oil substance	90~100	≤30	≤1.0	5.0~7.0	9~10
HEL-20	Light yellow transparent oil substance	90~100	—	≤1.0	5.0~7.0	9~10
EL-30	Light yellow oil to paste	70~80	≥45	≤1.0	5.0~7.0	11.5~12.5
EL-40	Light yellow oil to paste	57~67	70~84	≤1.0	5.0~7.0	13~14
HEL-40	Light yellow oil to paste	57~67	—	≤1.0	5.0~7.0	13~14
EL-60	Yellow paste or solid	—	85~90	≤1.0	5.0~7.0	14~15.5
EL-80	Light yellow to slightly yellow solid	—	≥91	≤1.0	5.0~7.0	15.5~16.5
EL-90	Light yellow solid	30~40	—	≤1.0	5.0~7.0	~17

(Note: HEL is the brand of
hydrogenated castor oil)

[Performance and Application]

specific ations	Performance and application
EL-10 EL-12 EL-20 HEL-20	<p>1, soluble in most organic solvents, the water is dispersed, with excellent emulsification, diffusion performance.</p> <p>2. In the textile industry, used as polyester, PNP and PVA, with emulsifying and antistatic effect, can make the yarn soft, smooth, reduce the end; it can be used as soft smooth agent in chemical fiber slurry, and can eliminate the foam in synthetic slurry; HEL-20 also has the characteristics of low coking at high temperature.</p> <p>3, can be used as pesticide emulsifier, emulsion polymerization emulsifier, used for the preparation of water-soluble metal cutting fluid and household washing products.</p>

EL-30	1, easily soluble in water, fatty acids or other organic solvents, with excellent emulsifying properties
EL-40	2, ink and pharmaceutical industry as an emulsifier.
HEL-40	3, it can be used as an emulsifier of organophosphorus pesticides.
	4. Make o / w type emulsifier for the emulsification of planting, moving and mineral oil.
	5. EL-40 is used as a component of wool, crude oil and chemical fiber oil agent in the textile industry, which has both emulsifying effect and antistatic effect, and is better mixed with other antistatic agents. It can also be used to prepare slurry to eliminate the foam in the synthetic slurry. EL-40 has excellent diffusion and colloidal protection effect. As a wool oil monomer in the wool spinning industry, it is easy to wash away, and has good hard water resistance.
	6, used as an oil field crude oil dehydration agent.
	7, in the metal processing industry for the preparation of water-soluble metal cutting liquid.
	8, HEL-40 can serve as a solubilizer.

EL-60	<ol style="list-style-type: none"> 1. This product is an o / w emulsifier. 2, can be used as chemical fiber oil agent and crude oil components. 3, pesticide emulsifier. 4, crude oil dehydration and emulsion agent. 5, ink, printing pulp emulsifier. 6, each planting, dynamic, mineral oil emulsifier. 7, in the metal processing industry is used for the preparation of metal cutting liquid.
EL-80	<ol style="list-style-type: none"> 1, easy to dissolve in water, soluble in fatty acids and other organic solvents, with unique emulsifying properties. 2, in the textile industry, acrylic fiber, nylon fiber, polypropylene and other chemical fiber oil components, has anti-electrostatic and emulsification effect, not only increase the smooth and soft performance of fiber, but also can eliminate the electrostatic influence, is conducive to the yarn stranding, clear opening, easy weaving. 3, as an organophosphorus pesticide emulsifier. 4. as ulagent for crude oil dehydration. 5, ink, printing pulp emulsifier. 6, as o / w type emulsifier, used for the emulsification of planting, moving and mineral oil. 7, wool and crude oil.
EL-90	<ol style="list-style-type: none"> 1, easily soluble in water and most organic solvents, with excellent emulsification, homogenization, diffusion, solubilization, lubrication properties. 2. In printing and dyeing industry, as dyeing agent and diffusion agent; this product has unique emulsifying ability for mineral oil, wool and crude oil can also be used as crude oil dehydration and emulsion, reducing the oil of sewage, and preparing water-soluble metal cutting solution.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging. This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The fatty acid ester series

Division span series SPAN

[Chemical composition] Water

-lost sorbitol fatty acid

ester [type] non-ionic

[Specifications] S-20, S-40, S-60, S-80, S-85

[CAS NO] 1338-39-2 / 26266-57-9 / 1338-41-6 / 1338-43-8 /

26266-58-0 [Technical Indicators]

specific ations	Appea rance (25°C)	hydroxyl value (mgKOH/g)	Koettstorf er number (mgKOH/g)	acid value (mgKOH/g)	M str (%)	HLB pri ce	melting point (°C)
S-20	Amber is a viscous liquid	330~360	160~175	≤8	≤1.5	8.6	Liquid (25°C)
S-40	Light yellow waxy solid	255~290	140~150	≤8	≤1.5	6.7	45~47
S-60	Light yellow waxy solid	240~270	135~155	≤8	≤1.5	4.7	52~54
S-80	Amber is thick oil	190~220	140~160	≤10	≤1.5	4.3	Liquid (25°C)
S-85	Yellow oil liquid	60~80	165~185	≤15	≤1.5	1.8	Liquid (25°C)

[Performance and Application]

specific ations	Performance and specifications
Si disc S-20	<p>1, soluble in oil and organic solvents, dispersed in water as a galemulsion body.</p> <p>2. As W / O emulsifier, stabilizer, plasticizer, lubricant, desiccant in production, as softener, antistatic agent and finishing agent in textile industry; also used as mechanical lubricant; as added anti-fog agent, with good initial and low-temperature fog resistance, suitable for PVC (1~1.5%), polyolefin film (0.5~0.7%) and EVA film.</p> <p>3, used as a mechanical lubricant, petroleum and paint industrial emulsifier.</p>
Steps S-40	<p>1. Dissolve in oil and organic solvents, and disperse in the hot water.</p> <p>2. used as emulsifier and dispersant in industry; as emulsification stabilizer in emulsion polymerization; as dispersant in printing ink; also used as textile waterproof coating additive and oil emulsifying dispersing agent; widely used in polymer antifog drops, PVC agricultural film 1~1.7%, EVA0.5~0.7%.</p>
Steps S-60	<p>1. This product is insoluble in water, and is dispersed in hot water. It is a good w / o type emulsifier, has strong emulsifying, dispersion and lubrication properties, and is also a good stabilizer and defoaming agent.</p> <p>2. Use as antistatic agent and soft agent in textile industry; as emulsifier and stabilizer in pesticide, coating and plastics industry; and as anti-fog drops for PVC, EVA, PE and other films, with 1.5~1.8% in PVC and 0.7~1% in EVA.</p>
Stoc S-80	<p>1, difficult to dissolve in water, soluble in hot oil and organic solvent, is an advanced lipophilic emulsifier.</p> <p>2, used for W / O type nylon and viscose curtain cord oil agent, has a good smooth effect on the fiber. For the emulsification of machinery, coatings, chemical industry and explosives. Use as emulsifier in drilling oil mud, dispersion in paint and coating industry; stabilizer in titanium dioxide production; pesticide, wetting agent and emulsifier in pesticide production; auxiliary solvent in petroleum products; also as rust agent in rust oil. Lubricant and softener for textiles and leather.</p> <p>3. As a film anti-fog droplet, it has good initial and low temperature anti-fog dropping properties, the amount of PVC is 1~1.5%, and the amount of polyolefin is 0.5~0.7%.</p>

Dipper S-85	1, slightly soluble in isopropyl alcohol, tetrachloroethylene, cottonseed oil, etc. 2, mainly used in textile, paint and petroleum industry, used as emulsifier, thickening agent, anti-rust agent, etc.
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[Packaging and Storage and Transportation]

S-20, S-80, S-85 are packaged in 50 Kg plastic buckets; S-40, S-60 are packaged in 20 Kg woven bags. Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The Twain series, TWEEN

[Chemical composition]

polyoxyethylene water loss sorbitol

fatty acid ester [type] non-ionic

[CAS NO.] 9005-64-5 / 9005-66-7 / 9005-64-5 /

9005-64-5 [Specification] T-20, T-40, T-60, T-80

(Special specifications, which can be developed and processed for you.) [qualification]

specifications	Appearance (25°C)	hydroxyl value (mgKOH/g)	Koettstorfer number (mgKOH/g)	acid value (mgKOH/g)	M str (%)	HLB pri ce	proportion
T-20	Amber, viscous liquid	90~110	40~50	≤2.0	≤3	16.5	1.08~1.13
T-40	Light yellow waxy solid	85~100	40~55	≤2.0	≤3	15.5	1.05~1.10
T-60	Light yellow waxy solid	80~105	40~55	≤2.0	≤3	14.5	1.05~1.10
T-80	Amber is thick oil	65~82	43~55	≤2.0	≤3	15	1.06~1.09

[Performance and Application]

specifications	Performance and specifications
T-20	<p>1, easily soluble in water, methanol, ethanol, isopropyl alcohol and other solvents, insoluble in dynamic, mineral oil, with emulsifying, diffusion, solubilization, stability and other properties.</p> <p>2, this product is harmless to the human body, no irritation.</p> <p>3. In other aspects, it can be used as emulsifier for mineral oil, solvent for dyes, emulsifier for cosmetics, stabilizer for foam, emulsifier, diffusion and stabilizer for medicine, and aid for photo emulsion.</p>
T-40	<p>1, easily soluble in water, methanol, ethanol, isopropyl alcohol and other solvents, insoluble in dynamic, mineral oil, used as o / w type emulsifier, solvent, stabilizer, diffusion agent, antistatic agent, lubricant.</p>
T-60	<p>1, easily soluble in water, methanol, ethanol, isopropyl alcohol and other solvents, insoluble in dynamic, mineral oil, has excellent emulsifying properties, both wetting, foaming, diffusion and other roles.</p> <p>2, used as o / w type emulsifier, dispersant, stabilizer, used for the manufacture of water-based coatings.</p> <p>3. It is used as a softener agent and antistatic agent in the textile industry. It is a softener of polyacrylonitrile spinning oil agent component and fiber after processing, so that the fiber can eliminate static electricity, improve its softness and give the fiber good dyeing performance.</p>
T-80	<p>1, easily soluble in water, methanol, ethanol, insoluble in mineral oil, used as emulsifier, dispersant, wetting agent, solubilizer, stabilizer, used in medicine, cosmetics, food and other industries.</p> <p>2. Used as stabilizer and foam agent, used as antistatic agent in synthetic fiber, as intermediate of chemical fiber oil, in emulsion and adhesive cord as oil and water-soluble emulsifying agent, often mixed with S-80.</p> <p>3. As oil field emulsifier, wax proof, heavy oil wetting, resistance reducing agent, near well treatment agent; as precision machine tool modulation lubrication coolant, etc.</p>

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

polyethylene glycol fatty acid ester series

[Type] Nonionic

[specifications]

breed	specifications	code name
polyethylene glycol stearate	PEG 400 monostearate	PEG400MS
Polyglycol lauric acid	PEG 200 monolurate	PEG200ML
	PEG 200 dicurate	PEG200DL
	PEG 400 monolurate	PEG400ML
	PEG 400 dicurate	PEG400DL
Pegylated oleate	PEG 400 monooleate	PEG400MO
	PEG 400 dioleate	PEG400DO
	PEG 600 monooleate	PEG600MO
	PEG 600 dioleate	PEG600DO

(Special specifications, which can be developed and processed for you.) [qualification]

specifications	Appearance (25°C)	Acid value of mgKOH / g	Saponification value of mgKOH / g	content (%)	HLB price
PEG400MS	Light yellow to a milky white solid	≤5	75~95	≥99%	10.7~11.7
PEG200ML	Colorless to pale yellow liquid	≤5	140~155	≥99%	9.5
PEG200DL	Colorless to pale yellow liquid	≤10	195~210	≥99%	8
PEG400ML	Colorless to pale yellow liquid	≤5	90~110	≥99%	13
PEG400DL	Colorless to pale yellow liquid	≤10	130~155	≥99%	10.5
PEG400MO	Amber liquid	≤5	75~95	≥99%	11~12
PEG400DO	Amber liquid	≤10	100~130	≥99%	7~8
PEG600MO	Amber liquid	≤5	60~75	≥99%	13~14
PEG600DO	Amber liquid	≤10	85~105	≥99%	10~11

[Performance and Application]

specifications	Performance and application
PEG400 MS	1, soluble in a variety of organic solvents, the water is dispersed, with emulsification, solubilization, wetting, soft properties. 2. As emulsifier, softness agent and lubricant in textile industry; cleaner, lubricant and brightening agent in cosmetics and metal processing industry; starch coating in paper industry as thickening agent and stabilizer; water dispersing paper infiltrating agent and softener; liquid drug and emulsion emulsifier in pharmaceutical industry; also as oil emulsification and grinding aid for coating and printing ink.
PEG200 ML	Dispersed in the water, and ore, vegetable oil to form a turbid liquid. Defoaming agent in waterborne coating. Vinyl plastic sol as antiadhesive agent, hair dye cream as viscosity control additive, also as paper soft additive, metal processing lubricant and textile lubricant emulsifier, coupling agent and solubilizer.
PEG200 DL	Dissolves in solvents such as isopropanol, acetone, carbon tetrachloride, which is dispersed in water, used as self-emulsifier

	and lubricant, mold release agent and viscosity control agent.
PEG400 ML	Disperse in water, with emulsifying, lubrication performance, latex paint as lubricant, fiber processing as lubricant, uniform dyeing agent, can also be used as pigment grinding dispersant, oil solvent solvent, vinyl plastic sol anti-adhesive, cosmetics and medicine emulsifier.
PEG400 DL	Disperse in water, has good collection, anti-static, soft, smooth performance, chemical fiber oil agent as oil soluble emulsification agent, softener agent, lubricant, antistatic agent, textile industry as coupling agent, lubricant, metal processing as defat agent, coolant additive, can also be used as paper release agent, industrial and civil detergent.
PEG400 MO	Soluble in benzene, isopropyl alcohol, the water is dispersed, as industrial special lubricant, industrial oil scale removal agent, vinyl plastic sol viscosity stabilizer, textile softener, lubricant, preparation of dry cleaning agent, oil-based cutting liquid balance emulsifier. Plastic antistatic agents and dispersants. Biodegradable.

PEG400 DO	Dissolve in ore, vegetable oil, the water is dispersed, as W / O type emulsifier, solubilizer, kerosene emulsifier, industrial lubricant.
PEG600 MO PEG600 DO	1, soluble in water, with good washing, emulsification and lubrication properties. 2. O / W emulsifier in cosmetics, uniform dyeing agent, dispersing agent, softener agent in textile industry, and lubricant in metal processing. The emulsifier of pesticides in pesticides can also be used for the pickling of water-soluble coatings and printed circuit boards.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

monoolein

[Specifications]

GM0 [Technical indicators]

Appearance (25°C): yellow to

red-brown liquid acid value

mgKOH / g: 3

Saponification value

mgKOH / g: 152~162

content (%): 99%

HLB value: ~3.5

[Performance and Application]

This product is insoluble in water and has emulsifying, thickening and defoaming properties. In the Japanese chemical industry, used as the production of cream, cream cosmetics, liquid washing shampoo emulsifier, thickening agent, shading agent, defoaming agent, textile industry used as fabric finishing agent, also used as pigment grinding additive. Also used for PE, PP, PVC internal antistatic agent, the general amount of 0.5~2.0%.

[Packaging and Storage and Transportation]

200 Kg, 50 Kg.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Other fatty acid ester series

[specifications]

breed	specifications	code name	type
glycerin fatty acid ester	monoolein	GMO	nonionic
	glyceryl monolaurate	GML	nonionic
Propyl glycol fatty acid esters	Glyl glycol monooleate	BPMO	nonionic
	Propyl glycol monolurate	BPML	nonionic
other	Tedecol oleate	CMO	nonionic
	Triethanolamine monooleate	emulsifier FM	cation

[qualification]

specifications	Appearance (25°C)	Acid value of mgKOH / g	Saponification value of mgKOH / g	content (%)	HLB price
GMO	Yellow to reddish-brown liquid	≤3	152~162	≥99%	~3.5
GML	Light yellow paste	≤3	210~220	≥99%	~5.0
BPMO	Amber liquid	≤5	160~170	≥99%	
BPML	Yellow to amber paste	≤5	212~222	≥99%	
CMO	Yellow transparent oil content	≤3	115~125	≥99%	
emulsifier FM	Brown-red, sticky liquid	—	120~140	≥99%	3~5 (W/O) ~9.5 (O/W)

[Performance and Application]

specifications	Performance and application
Glycerol fatty acid ester GMO	This product is insoluble in water and has emulsifying, thickening and defoaming properties. In the Japanese chemical industry, used as the production of cream, cream cosmetics, liquid washing shampoo emulsifier, thickening agent, shading agent, defoaming agent, textile industry used as fabric finishing agent, also used as pigment grinding additive. Also used for PE, PP, PVC internal antistatic agent, the general amount of 0.5~2.0%.
Glycerol fatty acid ester GML	This product is insoluble in water, with emulsification, lubrication properties, widely used in textile, leather and other industries.
BPMO	This product is insoluble in water, with emulsification, lubrication and other properties, widely used in textile, leather, coatings, plastics, pesticides and other industries.
BPML	This product is insoluble in water, mainly used for shampoo shampoo emulsifier, shading agent, but also used for pigment grinding additives.

CMO	<p>1, this product is insoluble in water, soluble in mineral oil and most organic solvents, is a good lubricant.</p> <p>2. This product can be used as a softener and lubricant. For chemical synthesis, lubrication and modification of mineral oils. Cutting oil, laminating oil, textile oil and rust agent can be prepared. Applied in chemical fiber oil agent, protective equipment and pigment paint.</p>
emulsifier FM	<p>1, this product is dispersed in water, into an emulsified state, can be soluble in oil, used as an emulsifier for oil, for w / o type emulsifier.</p> <p>2, in the metal processing, used for black metal, aluminum alloy cleaning, lubrication, polishing and anti-rust treatment.</p> <p>3, in the pesticide processing, as the pesticide w / o type emulsifier.</p> <p>4. In the ink industry, the w / o emulsifier for preparing ink, pigment and latex paint enhances the pigment and improves the fluid; add 3~5% to the coupling solution of the pigment and make the pigment bright and bright. The product can make the ink emulsify quickly, facilitate the kneading and rolling paste, and improve the luster and lubrication fluidity of the finished ink, and the dosage is generally 2~6%.</p>

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Pesticide emulsifier series

Agcide emulsifier monomer

specific ations	Appear ance (25°C)	cloud point (°C)	PH Value (1% aqueo us soluti on)	Shuif en (%)	HLB price	apply
600#	Light yellow paste	60~65	5~7	≤0.5	12~16	It is soluble in water, methanol, benzene, toluene and other solvents, and has good dispersion, wetting, penetration, adhesion, etc. It is an important non-ionic monomer of pesticide emulsifier, and also used as O / W emulsifier, emulsifier, wetting agent, washer, high temperature homogenizer, etc.
600-1#		70~80	5~7	≤0.5		
600-2#		80~90	5~7	≤0.5		
600-3#		90~100	5~7	≤0.5		
BY-110	Light yellow and transpar ent oil content	The sapon ifica tion value was 95 ± 5	5~7	≤0.5	10~16	It is easily soluble in water and organic solvents, and can be mixed with anionic surfactants. It is used as an efficient monomer of various organic phosphorus and organochlorine pesticides, and can also be used as an emulsifier of wettable powder.
BY-112		55~65	5~7	≤0.5		
BY-120	Light yellow or brown Yellow oil liquid Body to paste	75~86	5~7	≤0.5		
BY-130		85~94	5~7	≤0.5		
BY-140		≥95	5~7	≤0.5		
400#	Light yellow to brown y sticky	66~72	5~7	≤0.5	12~17	Mixed with anionic surfactant, the pesticide emulsifier can be used for all kinds of pyrethroid emulsion preparation, and can also be used as industrial emulsifier.
403#		≥90	5~7	≤0.5		
1601#	Light yellow paste or liquid	73~79	5~7	≤0.5	16.9	Made as emulsifier and wetting agent in general industry, it is an efficient monomer of organophosphorus and organochlorine pesticide emulsifier, and has good dispersion, wetting, penetration and adhesion effects.
1602#		73~79	5~7	≤0.5	16	

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Store in a cool, dry and ventilated place with a shelf life of two years.

Mixed type of pesticide emulsifier

[Chemical composition] A variety of non-ionic surfactants and anionic surfactants compound **[technical indicators]**

PH Value: 5.0~7.0 (1% aqueous solution) Moisture (%): 0.5

Cold storage experiment: qualified

Heat storage experiment: qualified

Emulsification experiment: qualified

[Performance and Use]

This series of products is yellow flowing or semi-flowing liquid at room temperature, soluble in water, methanol, benzene, toluene, xylene and other organic solvents, with excellent emulsifying, wetting, dispersion and other properties, especially suitable for a variety of organophosphorus, organochlorine, pyrethroid and various

The preparation of herbicide pesticide emulsion is characterized by high emulsification stability, good dispersion, appropriate dosage of emulsifier, the emulsion prepared with its good stability, not easy to occur precipitation, turbidity phenomenon.

[direction for use]

name of a part	Applicable pesticide	The original amount of medicinal	The dosage of emulsifier	Applicable solvent	solvent dosage	Features of emulsifier
0201B	phoxim	50	8~10	dimethylbenzene	~100	Good emulsifying stability and strong emulsion blue light.
	ethyl parathion	50	8	dimethylbenzene	~100	
	fenthion	50	10	dimethylbenzene	~100	
	phenthoate	50	10	dimethylbenzene	~100	
	benthiocarb	50	10	dimethylbenzene	~100	
0203B	dichlorvos	80	3~6	dimethylbenzene	~100	The emulsion blue light is strong and transparent Good light.
0204	Rogor	40	6	Methanol / toluene	3/51	Good results in the emulsification stability.
	chlordan	50	5~7	dimethylbenzene	~100	
	folimat	40	3	dimethylbenzene	~100	
	mipcin	20	10	Xylene / methanol	50/20	
	hunmiewei	50	10	dimethylbenzene	~100	
0206B	methyl parathion	50	8~10	dimethylbenzene	~100	The emulsion of blue light is strong and stable Qualitative good.
	quinalphos	50	10	dimethylbenzene	~100	
	And 2,4-D butyl ester	72	10	benzene	18	
8205	alachlor	48	10	chlorobenzene	~100	Oil dispersion, stable emulsification .
8206	butachlor	50	10	dimethylbenzene	~100	The emulsification is stable.
8209	acetochlor	50	10	dimethylbenzene	~100	The emulsification is stable.
	cypermethrin	10	6~8	dimethylbenzene	~100	
	deltamethrin	2.5	12	dimethylbenzene	86.5	

2201	n			nzene		The emulsification is stable.
	fenvalerate	20	8~12	dimethylbenzene	68~72	
	More insect fear	20	12	dimethylbenzene	68	
	permethrin	10~20	12	dimethylbenzene	68~78	
	Hundred dendrimers	5	12	dimethylbenzene	83	
	fenpropathrin	20	12	dimethylbenzene	68	
	Kung fu chrysanthemum ester	5	12	dimethylbenzene	83	
3201	amitraz	12.5	10	dimethylbenzene	~100	The emulsification is stable.
HSH431	carbofos	50	10	dimethylbenzene	~100	The emulsification is stable.
HSH432	Fine quinsol	50	10	dimethylbenzene	~100	The emulsification is stable.
HSH433	ketotriazole	20	10	Methanol / toluene	10/60	The emulsification is stable.
HSH434	endosulfan	37	10	dimethylbenzene	~100	The emulsification is stable.
HSH435	chlorpyrifos	40	7	dimethylbenzene	~100	The emulsification is stable.
HSH436	Glyphosate and its isopropylamine salt	10/41	7/12	water	~100	The emulsification is stable.
HSH437	napropamide	20	12	methylbenzene	~100	The emulsification is stable.

(* Special specification of pesticide emulsifier, can be developed and processed.)

[Packaging and Storage]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Store in a cool, dry and ventilated place with a shelf life of two years.

Special emulsifier series

Emulsifier S-185

[Chemical composition] fatty
alcohol and ethylene oxide
condensate [type] non-ionic
[HLB value] 8.5~9.5 (theoretical
value, for reference) [Technical
index]

Appearance: milky cream to solid

PH: 5.0~7.0 (1% aqueous solution)

Hydroxyyl: 110~120 mg KOH / g

Moisture: 1.0% (wt%)

[Performance and Application]

- 1, dispersed in water, with excellent emulsification properties.
- 2, as an oleophilic emulsifier, used for the preparation of w / o type emulsion.
- 3, chemical fiber softener, silk retreatment agent.
- 4, cigarette filter material softener.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Milk lark

[Chemical composition]
fatty alcohol
polyoxyethylene ether
[type] non-ion
[HLB value] 11~12 (theoretical
value, for reference) [Technical
index]

Appearance: milky cream to solid

PH: 6.0~7.0 (1% aqueous solution)

Hydroxyvalue: 82~92 mg KOH / g

Moisture: 1.0%

[Performance and Application]

- 1, soluble in water, with good emulsification, wetting, net washing performance.
- 2, general industry as emulsifier, especially suitable for mineral oil, wax emulsification, the emulsion is very delicate.
3. An effective aid for resin finishing.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Emulsifier MOA-3B

[Chemical
composition] fatty
alcohol ether [type]
non-ionic
[HLB value] 6~7 (theoretical
value, for reference)
[Technical index]

Appearance: colorless to pale yellow transparent oil substance

PH: 5.0~7.0 (1% aqueous solution)

Hydroxyvalue: 165~180 mg KOH / g

Content: 99%

[Performance and Application]

1. This product is easily soluble in oil and general polar solvents, and dispersed in water. It is a good lipophilic emulsifier, which will not layer and precipitate in winter (0℃).
2. This product is used as a w / o type emulsifier in general industry.
3. This product is not suitable for the preparation of AES.
4. This product is used for the synthesis of fiber oil components, such as polyester filament processing agent as emulsifier.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

The emulsifier, OS-15

[Chemical composition]

fatty alcohol

polyoxyethylene ether

[type] non-ion

[HLB value] 14~16 (theoretical
value, for reference) [Technical
index]

Appearance: milky cream to solid

Turbidity point: 80~88℃ (5% NaCl solution)

PH: 5.0~7.0 (1% aqueous solution)

[Performance and Application]

1. This product is soluble in water, and has good emulsification, clean washing, wetting and uniform dyeing properties.
2. In the printing and dyeing industry, can be used as a uniform dyeing agent, with good cooking performance, can enhance the dyeing firmness, bright and beautiful color; in metal processing, can be used as emulsifying cleaning agent, easy to remove the mineral oil on the metal surface, is conducive to the next process processing; in the chemical fiber wool industry, as textile oil agent, raw hair detergent; in electroplating industry, as an important component of high temperature electroplating bright agent.
3. In general industry, it can be used as emulsifier, which has good emulsifier for mineral and vegetable oil, and the emulsion made of this product is stable.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Emulsifier OS (MS-1)

[Chemical composition] alkyl

phenol ether sulfosuccinate sodium

salt [type] anion

[qualification]

Appearance: colorless to yellow transparent liquid or gelatinous material

PH: 4.0~7.0 (1% aqueous solution)

Solid content: $40 \pm 2\%$

[Performance and Application]

1. This product is soluble in hot water and general solvents, and has good emulsification, dispersion, wetting, suspension, decontamination and foaming

nature.

- 2, in the paint industry, used as an emulsion preparation of paint.
3. In the dyeing process, improve the stability and dispersion of dye color slurry.
- 4, in the pesticide, used as an emulsifier and pesticide glue suspension special additives.
- 5, it is used as an emulsifier in the preparation of polyethylene emulsion.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is one year.

Paraffin emulsifier

[Chemical composition] is composed of a variety of surfactants and emulsifier

[technical index]

Appearance: milky white to yellowish yellow solid

Content: 99%

PH: 5.0~7.0 (1% aqueous solution)

[Performance and Features]

1. This product is dispersed in hot water, dissolved in general organic solvents, with good emulsification and lubrication effect.
2. This product has a good emulsifying effect on 58 # paraffin wax. The paraffin emulsion prepared by this product is delicate and stable, and can be widely used in fiberboard processing, textile and paper industry.

[apply]

1. In general, for 58 # paraffin, the solid content of wax emulsion (including paraffin and emulsifier) is 20%~30%, and the amount of emulsifier is 35% of paraffin. That is, 100 Kg 30% wax emulsion is 70 Kg water, 23 Kg paraffin and 7 Kg emulsifier.
2. Preparation process: heat the measured water to 80~90℃; mix the measured emulsion to the measured paraffin to melt; and stir the mixture to the hot water for 10 min. It is a concentrated emulsion with blue light.(for your information)

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Palm wax emulsifier

[Chemical composition] is composed of a variety of surfactants and help emulsifier

[technical index]

Appearance: milky white solid material

Content: 99%

PH: 5.0~7.0 (1% aqueous solution)

[Performance and Features]

- 1, this product is soluble in hot water, soluble in general organic solvents, with good emulsification and lubrication performance;
2. This product has a good emulsifying effect on palm wax.

[apply]

The emulsifier is added to palm wax, mix and melt. The emulsifying dosage is 25% of palm wax. Pour 80~90°C of hot water into the mixture, heat for 20~30 minutes, and cooling is a thick emulsion with blue light. The solid content of general wax emulsion is 20~30%.

(For
reference)
[Packaging and
Storage]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Diethylsilicone oil emulsifier 1 #, 2

[Chemical composition] is composed of a
variety of non-ionic surfactants and additives
[type] non-ion
[qualification]

specifications	1#	2#
surface	Light yellow solid	Yellow liquid
PH price	5~7	5~7
content	≥99%	≥99%
Dsage (by silicone meter)	50%	40~50%
emulsion stability	qualified	qualified

[Performance and Features]

1. This series of products are soluble in general organic solvents, dispersed in water into emulsion, with good emulsifying and dispersion properties.
- 2.1 # is light yellow solid, generally used for emulsifying low viscosity dimethylsilicone oil, emulsion is stable, widely used in cosmetics industry as lubricant; used as defoaming agent and film agent in medical and food industry; one of the main materials for automobile, furniture and metal polishing agent; and film agent used for metal casting.
- 3,2 # is yellow liquid, easy to use, generally used for emulsification and low viscosity dimethyl silicone oil, emulsion stability, emulsified silicone oil can be used as metal casting film agent, not antifoam.

[apply]

1. 1 # Method (for reference)

According to the required solid content, add measuring emulsifier and dimethylsilicone oil to the emulsifier kettle. The amount of emulsifier is 50% of the silicone oil, and then heat to 40~50°C. At 500-1200r / min, add water within 2 hours, that is to get milky dimethylsilicate oil emulsion.

2. 2 # method (for reference)

According to the required solid content, add the measuring emulsifier and dimethyl silicone oil to the emulsifier kettle. The amount of emulsifier is 40~50% of the silicone oil, stir at low speed (60 rpm) to translucent, the stirring time is about 1 hour; add 3~6% water, increase stirring speed (1500 rpm), stir for 2 hours; add the remaining deionized water to the wok slowly, add preservative, stir for half an hour, and discharge.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Aminosilicone oil emulsifiers AMM, AMH

[Chemical composition] A variety
of surfactants compound into

[type] non-ion

[qualification]

Appearance: a colorless, transparent and viscous liquid

PH Value: 5.0-7.0 (1% aqueous solution)

Moisture: 1.0%

Content: 99%

[Performance and Features]

1. This emulsifier is easily soluble in water, has excellent emulsifying and dispersing performance, especially suitable for the production of various O / W type aminosilicone oil (ammonia value 0.1~0.6) microemulsion, has the advantages of easy operation, strong emulsification force, good emulsifying dispersion stability and so on, and is a variety of excellent performance in the current market.

2. AMM is composed of a variety of surfactants containing NP structure, which is suitable for various aminosilicone oil with viscosity of 6000 cp, and can get clear and transparent micro emulsion.

3. AMH is made of a variety of surfactants without NP structure, which is safe and environmentally friendly. It is suitable for various aminosilicone oil with viscosity 50000 cp and is widely used in export textiles.

4. AMM and AMH aminosilicone oil emulsifier have the following characteristics: (1) can enhance the attachment and penetration between amino silicone oil and fabric; (2) increase the flexibility of the fabric in softness or smoothness; (3) strong emulsification ability, micro-emulsification of aminosilicone oil with different amine values within the wide HLB value range; (4) low equipment requirements during production, without high shear machine, only general mechanical stirrer; (5) good compatibility, can be combined with Yin, Yang and non-ionic additives;

[apply]

1. Normal-phase emulsification method

Add the emulsifier and amino silicone oil to the emulsion, 10 parts, 20 parts, mix evenly, add 0.10 ~ 30 minutes of acetic acid for 20 minutes, add 20 minutes, add 20 minutes until 0.15 parts of acetic acid, adjust 5 between 5.5~6.0, add 25 parts of water, stir for 10~20 minutes, until forming uniform emulsion, sample, check the appearance is transparent liquid, filter and packing.(for your information)

2. Reverse-phase emulsification method

Add 5 parts of emulsifier and 35 parts of water to the emulsifier kettle, heat to 60°C, stir evenly, add 0.1~0.15 parts of acetic acid, stir evenly, slowly add 10 parts of amino silicone oil, stir for 30 minutes, adjust PH at about 7 with acetic acid, stir to cool to below 40°C, namely transparent microemulsion.(for your information)

[Packaging and Storage and Transportation]

200 Kg iron bucket, 20 Kg, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

White oil emulsifier

[Chemical composition] is composed of a variety of non-ionic surfactants and additives

[type] non-ion

[qualification]

Appearance: light yellow liquid

Content: 99%

Emulsified stability: qualified

[Performance and Features]

- 1, this product is soluble in general organic solvents, dispersed in water into emulsion, with good emulsifying and dispersion performance;
- 2, strong emulsifying ability of water-in-oil white oil special emulsifier, can be very easy to emulsify various types of white oil, the product is a microemulsion with blue light, good stability;

- 3, easy to use, simple emulsification process, only with mixing equipment, you can produce emulsified white oil;
- 4, non-ionic characteristics, low irritation, easy compatibility;
5. Recommended dosage: 10% -15% of the white oil quantity.

[apply]

According to the required solid content, add measuring emulsifier and white oil to the emulsifying kettle in turn, the amount of emulsifier is 10~15% of the white oil, stir evenly, add measured water to it, stir evenly to get the milky white oil emulsion (for reference).

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

kerosene emulsifier

[Chemical composition] is composed of a variety of negative / non-ionic surfactants and additives.

[type] Yin / non-ion

[qualification]

Appearance: light yellow liquid

Content: 99%

Emulsified stability: qualified

[Performance and Features]

- 1, this product is soluble in general organic solvents, dispersed in water into emulsion, with good emulsifying and dispersion performance;
2. kerosene special emulsifier with strong emulsifying ability can be very easily emulsified to get translucent microemulsion with blue light;
- 3, with the use of the solvent can be obtained transparent kerosene microemulsion;
- 4, easy to use, simple emulsification process, only with mixing equipment, can produce emulsified kerosene;
- 5, coal oil emulsion is widely used in all kinds of cleaning industry, such as ink cleaning, engine cleaning, die-casting cleaning, etc.

[apply]

1. Preparation of low-content kerosene emulsion (for reference)

Add 1 part of kerosene and 1 part of emulsifier to the reactor, stir evenly, and add water to it. Note that the acceleration should be slow at the beginning, that is, get the translucent kerosene emulsion with blue light.

2. Preparation of high-content kerosene emulsion (for reference)

Add 1 part of kerosene, 1 part of emulsifier and 0.5 parts of butyl ether to the reactor, stir evenly, and add the metering water to it, that is, to get a transparent kerosene microemulsion.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

PEG PEG series

[Chemical composition]

ethylene oxide

condensate [type] non-

ionic

CAS number: 25322-68-3

[Specifications] PEG200, 300, 400, 600, 800, 1000, 1500, 2000, 3000, 4000, 6000, 8000

(Special specifications,
which can be developed and processed
for you.) [qualification]

specifications	Appearance (25°C)	colour and lustr e Pt- Co	Hydroxy l value of mgKOH / g	formula weight	freezi ng poi nt °C	M str (%)	pH price (1% aqueous solution)
PEG-200	Colorless transparent liquid	≤20	510~623	180~220	—	≤1.0	5.0~7.0
PEG-300	Colorless transparent liquid	≤20	340~416	270~330	—	≤1.0	5.0~7.0
PEG-400	Colorless transparent liquid	≤20	255~312	360~440	4~10	≤1.0	5.0~7.0
PEG-600	Colorless transparent liquid	≤20	170~208	540~660	20~25	≤1.0	5.0~7.0
PEG-800	Milk white	≤30	127~156	720~880	26~32	≤1.0	5.0~7.0

	paste						
PEG-1000	Milk white paste	≤40	102~125	900~1100	38~41	≤1.0	5.0~7.0
PEG-1500	Milk white solid	≤40	68~83	1350~1650	43~46	≤1.0	5.0~7.0
PEG-2000	Milk white solid	≤50	51~63	1800~2200	48~50	≤1.0	5.0~7.0
PEG-3000	Milk white solid	≤50	34~42	2700~3300	51~53	≤1.0	5.0~7.0
PEG-4000	Milk white solid	≤50	26~32	3600~4400	53~54	≤1.0	5.0~7.0
PEG-6000	Milk white solid	≤50	17.5~20	5500~7000	54~60	≤1.0	5.0~7.0
PEG-8000	Milk white solid	≤50	12~16	7200~8800	55~63	≤1.0	5.0~7.0

[Performance and Application]

- 1, polyethylene glycol series of products can be used in agents. The polyethylene glycol with relatively low molecular weight can be used as a solvent, cosolvent, o / w type emulsifier and stabilizer for making cement suspensions, emulsions and injections

etc., also used as water soluble ointment matrix and suppository matrix, relatively high molecular weight solid waxy polyethylene glycol is often used to increase the viscosity and consolidation of low molecular weight liquid PEG, as well as other drugs; For insoluble drugs in water, this product can be used as the carrier of solid dispersant to achieve the purpose of solid dispersion, PEG4000, PEG6000 are good coating materials, hydrophilic polishing materials, film materials and capsules, plasticizer, lubricant and drop pill matrix, used for the preparation of tablets, pills, capsules, microcapsules, etc.

- 2, polyethylene glycol series products can be used as raw materials for ester surfactant.
3. PEG-200 can be used as a medium for organic synthesis and a heat carrier with high requirements, as a moisturizer, inorganic salt solvent, viscosity regulator in daily chemical industry; as a softener and antistatic agent in textile industry; and as a wetting agent in papermaking and pesticide industry.
4. PEG-400, PEG-600, PEG-800 are used as the substrate for medicine and cosmetics, and the lubricant and wetting agent for rubber industry and textile industry. The PEG-600 added with the electrolyte in the metal industry can enhance the grinding effect and enhance the luster of the metal surface.
5. PEG-1000 and PEG-1500 are used as substrate or lubricant and softener in pharmaceutical, textile and cosmetic industry; as dispersant in coating industry to improve water dispersibility and flexibility of resin, with dosage of 10-30%; and volatile, especially in wax paper and printing ink in rubber industry to promote vulcanation, and as disperser for carbon black filler.
6. PEG-2000, PEG-3000 are used as metalworking casting agent, metal drawing, stamping or forming lubricant and cutting liquid, grinding cooling lubrication polishing agent, welding agent, etc.; used as lubricant in paper industry, also used as hot melt adhesive to increase the rapid rewetting capacity.
7. PEG-4000 and PEG-6000 are used as substrate in pharmaceutical and cosmetic industries to regulate viscosity and melting point; used as coating agent in paper industry, increase the luster and smoothness of paper; used as additive in rubber industry, increase lubricity and plasticity of rubber products, reduce power consumption in processing, prolong the service life of rubber products; used as lubricant and coolant in metal processing industry, and used as dispersion and emulsifier in pesticide and pigment industry; used as antistatic agent and lubricant in textile industry.
8. PEG8000 It is used as a matrix in pharmaceutical and cosmetics industry to regulate viscosity and melting point; as lubricant and coolant in rubber and metal processing industry, as dispersant and emulsifying agent in pesticide and pigment industry; and as antistatic agent and lubricant in textile industry.

[Packaging and Storage and Transportation]

PEG200,400,600,800,1000,1500,2000,3000 packaged in 200 kg iron bucket or 50 kg plastic bucket; PEG4000,6000,8000 sliced in 20 Kg woven bag.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Polypropylene glycol PPG series

[Chemical composition]
propylene oxide
condensate [type] non-
ionic

【 CAS NO. 】 :25322-69-4

[Specifications] PPG-200, 400, 600, 1000, 1500, 2000, 3000, 4000, 6000, 8000

(Special specifications,
which can be developed and processed
for you.)[qualification]

specific ations	Appea rance (25℃)	colo ur and lust re Pt- Co	hydroxyl value mgKOH/g	formula weight	acid value mgKOH/g	M str (%)	PH Value (1% water solution)
PPG-200	Colorless, transparent, oily, viscous liquid	≤20	510~623	180~220	≤0.5	≤0.5	5.0~7.0
PPG-400	Colorless, transparent, oily, viscous liquid	≤20	255~312	360~440	≤0.5	≤0.5	5.0~7.0
PPG-600	Colorless, transparent, oily, viscous liquid	≤20	170~208	540~660	≤0.5	≤0.5	5.0~7.0
PPG-1000	Colorless, transparent, oily, viscous liquid	≤20	102~125	900~1100	≤0.5	≤0.5	5.0~7.0
PPG-1500	Colorless, transparent, oily, viscous liquid	≤20	68~83	1350~1650	≤0.5	≤0.5	5.0~7.0
PPG-2000	Colorless, transparent, oily, viscous liquid	≤20	51~62	1800~2200	≤0.5	≤0.5	5.0~7.0
PPG-3000	Colorless, transparent, oily, viscous liquid	≤20	34~42	2700~3300	≤0.5	≤0.5	5.0~7.0

PPG-4000	Colorless, transparent, oily, viscous liquid	≤ 20	26~30	3700~4300	≤ 0.5	≤ 0.5	5.0~7.0
PPG-6000	Colorless, transparent, oily, viscous liquid	≤ 20	17~20.7	5400~6600	≤ 0.5	≤ 0.5	5.0~7.0
PPG-8000	Colorless, transparent, oily, viscous liquid	≤ 20	12.7~15	7200~8800	≤ 0.5	≤ 0.5	5.0~7.0

[Performance and Application]

1. PPG series is soluble in organic solvents such as toluene, ethanol, trichloroethylene, PPG200,400,600 are soluble in water, with lubrication, solubilization, defresaming and antistatic properties. PPG-200 can be used as a dispersant for the pigment.
2. In cosmetics, PPG400 is used as an emollient, softener and lubricant.
3. It is used as anti-foam agent in coating and hydraulic oil, anti-foam agent in synthetic rubber and latex processing, refrigerant and coolant for heat transfer fluid, and viscosity improving agent.
- 4, used as an intermediate in the esterification, etherification and polycondensation reactions.
- 5, used as a release agent, solvent, synthetic oil additives, for water soluble cutting liquid, roller oil, hydraulic oil additives, high temperature lubricant, rubber internal lubricant and external lubricant.
- 6, PPG-2000~8000 has excellent lubrication, anti-bubble, heat resistance and frost resistance;
- 7, PPG-3000~8000 is mainly used as a component of composite polyether, to produce polyurethane foam plastic;
8. PPG-3000~8000 can be used directly or after esterification in the production of plasticizer and lubricant;
9. This product can be used as the base material for daily chemical, medicine and oil agent.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Polyether series

Propylene glycol block polyether

[Chemical composition] polyoxyethylene,
polyoxypropylene block polymer, Pluronic, Poloxamer

[type] non-ion

【 CAS NO. 】 9003-11-6

[Specifications] L31, L35, F38, L42, L43, L44, L45, L61, L61, L62, L63, L64, P65,

F68 [Technical indicators]

name	Appearance (25°C)	average molecular weight	dynamic viscosity (25°C CPS)	cloud point (1% aqueous solution)	melting point (°C)	M str (%)	pH price (1% aqueous solution)	HLB price
L31	Colorless transparent liquid	1100	200	37	—	≤1.0	5.0~7.0	3.5
L35	Milk white paste	1900	320	70~85	—	≤1.0	5.0~7.0	18.5
F38	White solid	5000	—	>100	45	≤1.0	5.0~7.0	30
L42	Colorless transparent	1630	250	37	—	≤1.0	5.0~7.0	8

	liquid							
L43	Colorless transparent liquid	1850	310	42	—	≤ 1.0	5.0~7.0	10
L44	Colorless transparent liquid	2200	440	45~55	—	≤ 1.0	5.0~7.0	12
L45	Colorless liquid to the paste	2400	—	75~85	—	≤ 1.0	5.0~7.0	15
L61	Colorless transparent liquid	2000	285	17~21	—	≤ 1.0	5.0~7.0	3
L62	Colorless transparent liquid	2500	400	21~26	—	≤ 1.0	5.0~7.0	7
L63	Colorless liquid to the paste	2650	475	34	—	≤ 1.0	5.0~7.0	11

L64	Milk white paste	2900	550	57~61	—	≤1.0	5.0~7.0	13
P65	Milk white paste	3500	—	75~85	29.5	≤1.0	5.0~7.0	15
F68	White sheet solid	8350	—	>100	50	≤1.0	5.0~7.0	29

* P65 is the original L65

[Performance and Application]

- 1, as a low foam detergent or antifoam agent. L61, L64, F68 are used to preparing low foam and high decontamination; L61 is used as defoaming agent in papermaking or fermentation industry; F68 is used as defoaming agent in circulation to prevent air entry.
2. Polyether toxicity is very low and commonly used as emulsifier; often used in shampoo.
- 3, polyether is an effective wetting agent, can be used in the fabric dyeing, photographic development and electroplating of the acid bath.
- 4, polyether is an effective antistatic agent, L44 can provide lasting electrostatic protection against synthetic fibers.
- 5, polyether in the emulsion coating as a dispersant. F68 is used as an emulsifier during the emulsion polymerization of vinyl acetate. L62, L64 may be used as a pesticide emulsifier and as a coolant and lubricant in metal cutting and grinding. Be a lubricant when the rubber is vulcanized.
6. used as crude oil emulsion breaker, L64 and F68 can effectively prevent the formation of hard scale in the oil pipeline and for the recovery of secondary oil.
- 7, polyether can be used as a papermaking aid, F68 can effectively improve the quality of coated paper.
8. F38 can be used as emulsifier, wetting agent, antifoaming agent, emulsion, dispersing ant, antistatic agent, dust removal agent, viscosity regulator, foam control agent, dyeing agent, gel agent, etc., for the production of agricultural chemicals; also for metal processing, pulp and paper industry, textile processing (textile, finishing, dyeing, soft finishing), water quality treatment; also used as cleaning agent.
9. P65 is mainly used in the wool spinning industry. As a wool protective agent, adding about 0.3% in the wool carbonization process can reduce the damage of wool scales, enhance the strength of single fiber by 10%, and reduce the breaking rate of spinning by 10%.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Polyether NPE-108, and NPE-105

[Chemical composition] alkyl

phenol polyoxyethylene

polyoxypropylene ether [type] non-

ionic

[qualification]

specific ations	Appear ance (25°C)	colour and lustr e Pt- Co	cloud point (°C)	pH price (1% aqueous solution)	HLB price
NPE-108	Colorless to pale yellow liquid	≤50	30~35	5.0~7.0	10~11
NPE-105	Colorless to pale yellow liquid	≤50	38~44	5.0~7.0	11~12

[Performance and Application]

- 1, this product is easily soluble in water, and there is no swelling phenomenon when dissolved in water, and has a good emulsification, clean washing, penetration ability.
- 2, this product is one of the components of synthetic fiber oil agent, in addition to the emulsification antistatic properties, but also has good low temperature mobility.
3. In the printing and dyeing industry, the dyeing, diffusion, wetting and washing additives have good efficacy; the foam is lower than the general active agent.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Polyether F-6

[Chemical composition] allylate polyoxyalkyl ether
allyl polyoxyethylene polyoxypropylene ether

[Technical index]

Appearance: light yellow and transparent liquid

Color: 80 (Pt-Co)

Hydroxyvalue: 45 ± 8 mg KOH / g

Acid value: 0.3 mg KOH / g

Double-key value: 0.5 mmol / g

Water: 0.5% (wt%)

[Performance and Application]

- 1, this product can be soluble in water and some organic solvents;
- 2, this product contains double bonds, can be reacted with hydrogen-containing silicone oil to produce hydrophilic multi-functional fabric finishing agent, so that the textile has a straight scraping, smooth, breathable, antistatic and other functions;
- 3, this product is used for the production of polyurethane silicone oil, water-soluble silicone oil, organic silicone uniform foam agent and other products of the main raw materials.
- 4, and is used as an emulsifier in other industries.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

No regular polyether series

[Chemical composition]

polyethylene-polyoxypropylene

copolymer [type] non-ion

[qualification]

breed	Appearance (25°C)	colour and lustre Pt-Co	formula weight	acid value (mgKOH/g)	content (%)	pH price (1% aqueous solution)
Heterogeneous decandamol unconventional polyether TPE-1000	Colorless liquid	≤20	1000±100	≤0.5	≥99.0	5.0~7.0
Propylene glycol random polyether PPE-1500	Colorless liquid	≤20	1500±100	≤0.5	≥99.0	5.0~7.0
Propanicolol unconventional polyether GPE-3000	Colorless liquid	≤20	3000±150	≤0.5	≥99.0	5.0~7.0
Butanol random polyether BPE-1000	Colorless liquid	≤20	1000±100	≤0.5	≥99.0	5.0~7.0
Butanol random polyether BPE-1500	Colorless liquid	≤20	1500±100	≤0.5	≥99.0	5.0~7.0
Butanol random polyether BPE-2500	Colorless liquid	≤20	2500±150	≤0.5	≥99.0	5.0~7.0
Lauric acid unconventional polyether LPE-1200	Colorless liquid	≤20	1200±100	≤0.5	≥99.0	5.0~7.0
Dodecyl PEther CPE-1500	Colorless liquid	≤20	1500±100	≤0.5	≥99.0	5.0~7.0

(* Special specifications of
polyether, which can be developed and

processed for you.) [Performance and Application]

1, belongs to the polymer surfactant, with unique properties, generally not hygroscopic, toxicity and foaming force are low, good dispersion force, with strong emulsification force, with good low temperature fluidity.

2, for low foam detergent, emulsifier, defoam agent and fabric dye, antistatic agent, metal cutting coolant, high-speed spinning oil agent lubricant and adhesive.

3, used in chemical fiber oil agent as a smoothing agent.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

HSH polyether glycol

Polyether polyols are widely used in the production of various types of polyurethane elastomers, coatings, adhesives, sealants, sealants, waterborne polyurethane and other fields. It can partially replace tetrahydrofuran polyether and polyester polyol use. The production cost in this field is reduced, and the product quality is improved. It can also be used as esterification, etherification reaction intermediate, and can also be used as anti-foaming agent, anti-foaming agent.

[qualification]

product name	Appearance (25℃)	Hydroxyl values of mgKOH / g	Acid value of mgKOH / g	M str%	K+ Na+(ppm)	Color Color (APHA)	dynamic viscosity 40℃ mpa.s	apply
HSH-204	Colorless to pale yellow mucus	265~300	≤0.15	≤0.20	≤8	≤50		Used as the viscosity regulator of polymerization polyether, waterproof coating, chemical synthesis intermediate
HSH-206	Colorless to pale yellow mucus	178~197	≤0.15	≤0.20	≤8	≤50		The elastomer is used as the viscosity regulator of the polymeric polyether
HSH-210	Colorless to pale yellow mucus	105~119	≤0.15	≤0.10	≤8	≤50		Make polyurethane hard foam, semi-hard foam, coating, binder, chemical synthesis of intermediates
HSH-215	Colorless to pale yellow mucus	68~83	≤0.15	≤0.10	≤5	≤50		Make polyurethane hard foam, semi-hard foam, coating, binder, chemical synthesis of intermediates
HSH-220	Colorless to pale yellow mucus	53~59	≤0.15	≤0.10	≤5	≤50	≤180	Make polyurethane elastomer, binder, chemical synthesis intermediates, defoam
HSH-230	Colorless to pale yellow mucus	35~40	≤0.10	≤0.10	≤5	≤50		Used as polyurethane elastomer, paint, adhesive, agent, sealant, synthetic intermediates, defoaming agent
HSH-240	Colorless to pale yellow mucus	26.5~29.5	≤0.10	≤0.10	≤5	≤50	≤500	Used as polyurethane elastomer, paint, adhesive, agent, sealant, chemical synthesis intermediates
HSH-260	Colorless to pale yellow adhesive	17.5~20	≤0.10	≤0.10	≤5	≤50		Used as polyurethane elastomer, coating, adhesive, agent, sealant
HSH-280	Colorless to pale yellow adhesive	12.5~16	≤0.10	≤0.10	≤5	≤50		Used as polyurethane elastomer, coating, adhesive, agent, sealant
HSH-303	Colorless to pale	535~590	≤0.15	≤0.10	≤10	≤50		Make the polyurethane hard foam and chemically synthesize the

	yellow mucus							intermediates
HSH-305	Colorless to pale yellow mucus	320~355	≤0.15	≤0.10	≤10	≤50		Make the polyurethane hard foam and chemically synthesize the intermediates
HSH-310	Colorless to pale yellow mucus	153~188	≤0.15	≤0.10	≤8	≤50		Make polyurethane elastomer, binder, waterproof coating
HSH-330	Colorless to pale yellow mucus	53~59	≤0.15	≤0.10	≤5	≤50		Soft foam polyurethane plastic, chemical synthesis intermediates, defoaming agent
HSH-330N	Colorless to pale yellow mucus	33~37	≤0.10	≤0.10	≤5	≤150		Typical highly active polyethers, with a wide range of use
HSH-360	Colorless to pale yellow adhesive	25~31	≤0.10	≤0.10	≤5	≤50		Production of high rebound and semi-hard or soft polyurethane foam, chemical synthesis intermediates
HSH-390	Colorless to pale yellow adhesive	17~20	≤0.10	≤0.10	≤5	≤50		Production of high rebound or soft polyurethane foam

(* Special specifications of polyether, which can be developed and processed for you.)

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years

The pose alcohol polyoxypropylene ether

[Chemical composition] Polymers of fatty alcohols and propylene oxide

[Type] Nonionic

[Specification] SPO-5, SPO-10, SPO-20, SPO

30 [Technical Index]

product name	SPO-5	SPO-10	SPO-20	SPO-30
	Apoalcohol + 5PO	Fat ol + 10PO	Fat ol + 20PO	Fat ol + 30PO
Appearance (25°C)	Colorless to pale yellow, transparent liquid			
Hydroxyl value (mgKOH / g)	100±5	67±5	40±4	28±3
Acid value (mgKOH / g)	≤1			
pH price *	5—7			
solubility	Not dissolved in water			
	Dissolve in ethanol, acetone into a transparent solution, which can be dissolved in the water-alcohol system			
	Dissolve in the white mineral oil into a transparent solution			
	Dissolve in molten white vaseline into a transparent solution			

Note: PH measurement method: add 50ml of isopropyl alcohol, 30ml of distilled water to a 150ml beaker, and adjust the PH of this solution to 6.8~7. Weigh 10g (accurate to 0.01g) sample, add 70ml of the above water solution, stir well, and determine with a PH meter.

[Performance and Application]

1. This product is stable, does not react with the raw materials of most cosmetics, is stable in acid and alkali media, and can be combined with Yin and cationic surfactants respectively; this product is used as a softener, with certain lubrication, wetting, plasticizing, solubilization and dispersion properties;
- 2, in the hair care supplies, can partially or completely replace the white mineral oil, give hair luster, and shape the effect, can be used as hair gel resin molding and thickening agent;
3. In skin care products, used as non-greasy sunscreen lubricant to make the skin have a pleasant and dry feeling; in the skin lubricating oil agent, its dissolving ability and moisture can remove oil;
- 4, in the bath products, can be made low temperature transparent bath oil and hand sanitizer;
- 5, in the aerosol, used as anti-adhesive and valve lubricant;
- 6, in beauty cosmetics, used as the carrier of pigment, can produce non-greasy, non-sticky film; can be used as pigment dispersant and coupling agent, can be a large number of aromatic oil coupling, make it dissolve in mineral oil;
- 7, in the chemical industry, used as intermediates for the synthesis of specialized surfactants. For example, after SPO-20 is connected to ethylene oxide, 1% aqueous solution will become thick colloidal near its turbidity point, and can return to water after cooling.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

The allyl polyethylene glycol APEG

[Similar product name] Acrylic alcohol polyoxyethylene ether

[Composition] Acryolol and
ethylene oxide condensate [type]
non-ionic

【CAS No.】 27274-31-3

[Specification] APEG-400, APEG-700, APEG-1000, APEG-2000, APEG-2500 [Technical Indicators]

specific ations	surface	hydroxyl value (mgKOH/g)	acid value (mgKOH/g)	Shuif en (%)	PH Value (1% aqueous solution)	Unsaturat ion (mmol/g)
APEG-400	Light yellow liquid	132~148	≤ 0.5	≤ 0.5	5.0~7.0	≥ 2.25
APEG-700	Light yellow paste to a solid	74~88	≤ 0.5	≤ 0.5	5.0~7.0	≥ 1.25
APEG-1000	White to slightly yellow solid	50~58	≤ 0.5	≤ 0.5	5.0~7.0	≥ 0.90
APEG-2000	White to slightly yellow solid	25~30	≤ 0.5	≤ 0.5	5.0~7.0	≥ 0.40
APEG-2500	White sheet solid	20~25	≤ 0.5	≤ 0.5	5.0~7.0	≥ 0.30

[Performance and Application]

This product is soluble in water and various organic solvents. With active group, can react with active hydrogen or double bond, can be used to modify the grafting reaction of silicone oil, polymer material as dispersant.

This product is an important raw material for a new generation of polycarboxylic acid system efficient water reducing agent. During the esterification reaction and synthesis of waterborne polyurethane, as a terminal hydrophilic group, it forms a copolymer, improves the hydrophilicity and improves the dispersion of the polymer in water. The polycarboxylic acid efficient water reducing agent synthesized by this raw material has the advantages of efficient particle dispersion and retention ability, high water reduction rate, low cement use, good enhancement effect, durability, stainless steel bar and environmental friendliness. It can be used in high performance and high strength (above C60) commercial concrete.

[Packaging and Storage and Transportation]

Solid 200kg, 50kg plastic bucket; 20kg woven bag. This series of products are non-toxic, non-flammable, and are stored and transported as general chemicals. Store in a dry and ventilated place, with a shelf life of one year.

Polyethylene glycol monomethyl ether MPEG series

[Composition] The condensate of methanol and ethylene oxide

【CAS NO.】6048-68-6

[Specifications] MPEG-400 MPEG-600 MPEG-750 MPEG-1000 MPEG-

2000 [Type] non-ionic

[qualification]

specifications	Appearance (25°C)	Hydroxyl values of mgKOH / g	formula weight	M str (%)	pH price (1% aqueous solution)
MPEG-400	Targeting liquid	133~148	380~420	≤0.5	5.0~7.0
MPEG-600	Targeting liquid	88~100	560~640	≤0.5	5.0~7.0
MPEG-750	Targeting liquid	70~80	700~800	≤0.5	5.0~7.0
MPEG-1000	Wax paste	47~56	1000~1200	≤0.5	5.0~7.0
MPEG-2000	White solid	25.5~31	1800~2200	≤0.5	5.0~7.0

[Performance and Application]

1, used in the building materials industry, as cement water reducing agent, enhancer raw materials. The polycarboxylic acid efficient water reducing agent synthesized by this raw material has a strong dispersion retention ability of cement particles, which makes the product has the advantages of low dosage, high water reducing rate, good enhancement effect, durability, stainless steel bar and environmentally friendly. It can be used in high performance and high strength (above C60) commercial concrete with field mixing and long-distance transportation.

2, which is soluble in water, ethanol, and organic solvents. Steam pressure, stable to heat, in the textile printing and dyeing industry and the chemical industry as a thickening agent, lubricant.

[Packaging and Storage and Transportation]

Solid 200kg, 50kg plastic bucket; 20kg woven bag. This series of products are non-toxic, non-flammable, and are stored and transported as

general chemicals. Store in a dry and ventilated place, with a shelf life of one year.

The osmotic agent series

Osmosmotic agent JFC Penetrant

[Similar product name] penetrant JU

[Chemical composition]

fatty alcohol

polyoxyethylene ether [type]

non-ion

[HLB value] 11.5~12.5

(theoretical value)

[Technical index]

Appearance: colorless to yellowish viscous liquid (25°C visual inspection)

PH: 5.0~7.0 (1% aqueous solution)

Tidity point: 40~50°C (1% aqueous solution)

Penetration: 100% (0.1% aqueous solution) of the standard (JFC)

[Performance and Application]

1, for active, dispersed and other dye printing fabrics to remove floating color, can be treated at low temperature to avoid the fabric white stain, the general dosage of 0.1~0.5 g / l.

2, can scrub the finished product on the oil, especially for the silk finished products to the oil spots is very effective.

3, for dispersion reduction and other dyes dye bath as dispersant, the dosage of 0.1~0.5 g / liter is appropriate.

4, for the treatment of acrylic fiber before dyeing, washing oil stains, treatment temperature 50°C, penetration agent JFC dosage 0.8~1 g / l.

5, used for nitrile, hair blended fabric high pressure-bath dyeing process, the general dosage of about 0.5%.

6, the washing force of JFC is best at 40°C, when used as emulsifier, the amount is 10% of the weight of the emulsified oil.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Osmotic agent Penetrant JFC-1

[Chemical composition]

alkyl phenol

polyoxyethylene ether [type]

non-ion

[HLB value] 11.5~12.5

(theoretical value) [Technical index]

Appearance: slightly yellow to colorless viscous liquid (25°C visual inspection)

PH: 5.0~7.0 (1% aqueous solution)

Tidity point: 40~50°C (1% aqueous solution)

Penetration: 100% (0.1% aqueous solution) of the standard (JFC)

[Performance and Features]

- 1, easy soluble in water, has excellent permeability performance, above the turbidity point does not affect the permeability.
- 2, textile industry as penetration agent, can be used for sizing, sizing, sizing, cooking, bleaching, carbonization and other processes. It can be used as an infiltration aid for dyeing bath and finishing bath.
- 3, leather industry as penetrant, can also be used as deasing agent.
- 4, has a strong ability to wash hair, easy to wash away all kinds of oil and feel soft.

[apply]

- 1, Penetration: textile, printing and dyeing, finishing and other processes, where the anion penetrant can choose this agent, the dosage is generally 1~5g / L.
- 2, grouting: biological enzyme grouting (starch pulp), JFC can accelerate the pulp, the general dosage is about 0.1% of the liquid weight.
- 3, chemical fiber refinement: when vinegar ester fiber and other synthetic fiber products, JFC 2 ~ 5g / L and 5 sodium chloride 5 g / L are added to the refinement solution, which can improve the refinement effect.
- 4, wool net washing: penetrant JFC has the ability to wash hair, will not stay on the hair after use, no yellowing and other defects, fiber feel is relatively soft, the penetrant can be used in neutral, alkaline or acidic environment, can be used with soap in hard water, can also be used alone, the temperature of 40~50℃ is appropriate.
5. Wool carbonization: the permeable agent JFC 0.5 ~ 1 g / L can be added to shorten the wool carbonization time, reduce the acid amount and improve the carbonization effect.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Osmotic agent Penetrant JFC-2

[Chemical composition] the
condensate of fatty alcohol and
ethylene oxide [type] non-ionic
[qualification]

Appearance: colorless to slightly yellow liquid

PH: 5.0~7.0 (1% aqueous solution)

Turb: 40℃ (1% aqueous)

Osmosis: 3 seconds (1% aqueous solution)

[Performance and Application]

- 1, soluble in water, strong acid, alkali, hypochlorite, etc., with good permeability performance. It can be used with anode ions. This product in the storage process with different temperature stratification phenomenon, but does not affect the use, can also be prepared into 80~90% aqueous solution, the solution is clear and transparent, there will be no stratification phenomenon, and will not freeze in winter.
- 2, used as the permeability of the resin finishing solution.
- 3, used as a leather coating penetration agent, can also be used as a degreasing agent.
- 4, textile industry as penetration agent, can be used for sizing, sizing, boiling, bleaching and other processes.
- 5, used as a wool detergent.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

penetrant JFC-II

[Chemical composition]

polyoxyethylene ether
compounds [type] non-ion

[HLB value] 11~13
(theoretical value)

[Technical index]

Appearance: slightly yellow and transparent oil content

PH: 5.0~7.0 (1% aqueous solution)

Tidity point: 40~50°C (1% aqueous solution)

Osmosis: 5 seconds (1% aqueous solution)

[Performance and Features]

Easy soluble in water into clear transparent solution, heat resistance, acid and alkali resistance, metal salt, chlorine resistance, for all kinds of fiber incompatibility, used as penetration agent in textile industry, can be used for pulp, grouting, cooking, bleaching, carbonization and chlorination process, and can be used as dyeing bath and finishing bath penetration agent, and leather coating penetration agent, can also be used as a chemical fiber fabric. Has a strong net washing ability.

[Application] (reference amount)

1. The net washing amount of wool is 1.5~2.0% of the gross weight;
2. Permeation amount: 2~6g / L solution;
- 3, grouting dosage: about 0.2% of the liquid volume;
- 4, carbonized wool: 1~1.5g/L solution;
- 5, chemical fiber refinement: 3~6g / L solution.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The superosmolytes Super Penetrant JFC-E

[Chemical composition]

fatty alcohol
polyoxyethylene ether [type]
non-ion

[HLB value] 11.5
(theoretical value)

[Technical index]

Appearance: colorless to slightly yellow liquid (25°C visual inspection)

PH: 5.0~7.0 (1% aqueous solution)

Moisture: 0.5%

Osmosis: 45s (0.1% aqueous solution)

[Performance and Application]

- 1, this product does not contain APEO, is a new generation of environmental protection products;
- 2, this product is easy to disperse or dissolve in water, with excellent wetting, emulsification and penetration properties;
- 3, this product has a strong penetration (5g / L, 2 seconds), emulsification force, net washing force, suitable for improving the product permeability and silicone oil emulsification force, has a superior cost performance;
4. The phosphate ester of this product is one of the best refined materials so far, which has better wetting, permeability, alkaline resistance and emulsification than isooctanol ether.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Osmotic agent Penetrant JFC-M

[Chemical composition] Polyoxyethylene ether compounds as the main body, add a number of high permeability agent compound to form [type] non-ion / anion

[qualification]

Appearance: light yellow to milky white oil or paste

PH: 5.5~7.5 (1% aqueous solution)

Turbpoint: > 100°C (1% aqueous)

Osmosis: 5 seconds (1% aqueous solution)

[Performance and Application]

- 1, easy to dissolve in water, excellent permeability, not cloudy at high temperature, still maintain good permeability.
- 2, textile printing and dyeing industry as a penetration agent, can be used for sizing, unsizing, cooking, bleaching, carbonization, printing, dyeing and other processes.
- 3, leather industry as penetrant, can also be used as deasing agent.
- 4, the washing ability is strong, especially at high temperature, the washing ability is better than the conventional JFC, easy to wash off all kinds of oil and feel soft.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The hypobubble osmolyte SFLow foam wetting agent

[Chemical composition]

fatty alcohol polyoxyalkyl

ether [type] non-ion

[qualification]

Appearance: light yellow to light yellow oily material

PH: 5~7 (1% aqueous solution)

Osmosis: 70 seconds (0.1% aqueous solution)

Active substance: 99% (wt%)

[Performance and Application]

1. This product is easily soluble in water and general organic solvents, and has good permeability, emulsifying and clean washing performance, and low foam.
- 2, this product is not frozen in 0°C, its aqueous solution is not sticky paste, can be mixed with water.
3. This product is suitable for the preparation of pretreatment agents for various fiber fabrics, which is conducive to the shedding and dispersion of oil agent. The treatment agent foam is lower than JFC.
- 4, in other industries, used as emulsifier, osmosis agent and net lotion.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The rapid permeant T Quick penetrant

[Chemical composition]

Sulfonated dioctyl succinate
ester sodium salt [type] anion

[qualification]

Appearance: colorless to pale yellow and viscous liquid

Osmosis: 5 seconds (1% aqueous solution, 25°C)

PH Value: 5.0~7.0 (1% aqueous solution)

[Performance and Application]

- 1, easily soluble in water, the solution is milky white, not resistant to strong acid, strong alkali, heavy metal salt and reducing agent, fast and uniform penetration, with good wetting, infiltration, emulsification, foaming performance. The penetration effect is best below 40°C, and the alkali is easier to hydrolyze at high temperature. It is suitable to treat the fabric below 40°C and then heat up. T does not tolerate strong alkali, and cannot be directly added to the concentrated lye. The lye should be diluted before adding T T.
2. This product is an efficient penetration agent, used to treat cotton, hemp, viscose and blended products, the treated fabric is directly bleached or dyed without cooking, which can improve the defects caused by dead cotton, and the fabric after printing and dyeing feels more soft and plump. When the billet is practiced, the slurry should be retreated first to ensure the infiltration effect.
- 3, permeate T if found too much foam, a small amount of defoaming agent, GP or octanol, tributyl phosphate and other defoaming can be added.
4. For raw cotton dyeing; for pesticide wettable powder.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The alkali-resistant osmolyte, Alkali penetrant OEP-70

[qualification]

Appearance: colorless to slightly yellow consistency

PH: 6~8 (1% aqueous solution)

Content: 68%

Penetration: 8 seconds (10 g OEP-70 / L, 120 gNaOH / L)

Alkalinity resistance: 200 gNaOH / L resistance

[Performance and Features]

- 1, this product has excellent anti-concentrated alkali, high temperature resistance, oxidation resistance, reducing agent resistance, hard water resistance, and has a good stability effect on hydrogen peroxide.
2. The penetration force of this product is superior.
3. This product has excellent emulsification, degreasing, clean washing and dispersion ability under the condition of strong alkali.
- 4, this product is the ideal raw material for pretreatment additives (alkali resistance finishing agent, etc.), using this product, can make your additives to achieve excellent treatment effect.

[apply]

- 1, for the manufacture of pre-dyeing anti-strong alkali concentrate and penetration agent.
- 2, this product can be used for compound detergent, homogenizer, emulsifier and osmosis agent.
3. Because OEP-70 is a viscous liquid with high viscosity, it is difficult to melt in a short time at room temperature, and it can be dissolved in water when heating to about 40°C. Therefore, it is recommended that the factory should fully dissolve it in use, and then add other materials.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The alkali osmolyant Alkali penetrant AEP

[qualification]

Appearance: slightly yellow to colorless consistency

PH: 1~3 (1% aqueous solution)

Content: 99%

Alkalinity resistance: 200 gNaOH / L resistance

[Performance and Application]

1, this product is easily soluble in water and general organic solvents, with excellent anti-concentrated alkali, high temperature resistance, oxidant resistance, reducing agent resistance, hard resistance

Water, has a good stabilizing effect on hydrogen peroxide, is an anionic surfactant.

2, the product has superior permeability, permeability: 10 seconds (7 g AEP in 1L120 gNaOH / L alkali solution).

3, this product has excellent oscolation, emulsifying, degreasing, net washing, dispersion and antistatic ability under strong alkali conditions.

4, this product is the ideal raw material for pretreatment additives (alkali resistance concentrate, silk light penetration agent, etc.), using this product, can make your additives to achieve excellent treatment effect.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is one year.

Osmotic agent Penetrant OE-35

[Chemical composition] the condensate of fatty alcohol and ethylene oxide [type] non-ionic

[qualification]

Appearance: slightly yellow to colorless liquid

PH: 5.0~7.0 (1% aqueous solution)

Hydroxyvalue: 192~202 mgKOH / g

Penetration force: 5 seconds (4g / L)

Moisture: 0.5%

[Performance and Application]

1, soluble in water, strong acid, alkali, hypochlorite, etc., with good permeability performance.

2, can be used with Yin and Yang ions. This product is layered with different air temperature during the storage process, but it does not affect the use.

3, suitable for refined bleaching and dyeing penetrant.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Additive AC-1800 series

[Chemical composition] fat amine

polyoxyethylene ether

Octadecylamineethoxylates [type] non-ion

[Specifications] AC-1801, AC-1802, AC-1810, AC-1812, AC-1815, AC-1820, AC-1860 (special specifications, can be developed and processed for.)

[qualification]

specifications	surface (25℃)	colour and lustre (Gardner method)	Total amine value mgKOH/g	The value of uncle amine mgKOH/g
AC-1801	Colorless to pale yellow wax content	—	173~183	—
AC-1802	Colorless to pale yellow wax content	—	150~165	150~165
AC-1810	Yellow oil	≤9	75~85	75~85
AC-1812	Yellow oil	≤9	65~75	65~75
AC-1815	Light brown, oily to paste	≤10	50~60	50~60
AC-1820	Light brown paste	≤9	44~50	44~50
AC-1830	Yellow paste	≤9	28~32	28~32
AC-1860	Yellow wax	≤8	18~22	18~22

[Performance and Application]

specifications	Performance and application
AC-1801 AC-1802	This product is insoluble in water and soluble in organic solvents. Used as an internal antistatic agent in plastic and as an additive in the textile industry.
AC-1810	This product is soluble in water and soluble in an organic solvent. Used as reducing acid dye dye; as corrosion inhibitor of petroleum cracking device; as lubricant, emulsifier and dispersant in pesticide, textile, paper making and leather industry.
AC-1812 AC-1815	<p>1. This product is soluble in water, non-ionic in alkaline or neutral media, and cationic in acidic media, with excellent uniform dyeing and diffusion properties.</p> <p>2. Mainly used as a homogenizer of acid metal complexation dye, it can reduce the amount of dye bath sulfuric acid, reduce the strong damage of the fabric, and can also be used as a neutral dye and reducing dye homogenizer. It can effectively control the color percentage and dye swimming and contributes to rapid staining at high temperature.</p> <p>3, in the hair, hemp, silk, synthetic fiber as a uniform dyeing agent, improve the concentration is the ideal peeling agent. As a peeling agent for wool and nylon fabrics for peeling and dyeing of wool, it can improve the appearance of the fabric in dyeing and printing.</p> <p>4, viscose fiber cord production as an additive, improve the strength of cord, improve viscose filtration and processing technology, improve the strength of cord, so that the exchange rate of spinning nozzle is about 20~40% lower than the original.</p>

	5, used as emulsifier, antistatic agent and dispersant in textiles.
AC-1820 AC-1830	In textile printing and dyeing industry, detergent, emulsifier, dispersant, sizing agent, antistatic agent and softener; used in collagen paste, can improve the filtration and silk proof of raw pulp, reduce the power load and improve the loose degree of alkali fiber.
AC-1860	In textile industry, uniform dyeing additive is used for finishing to prevent white base and increase color; in daily chemical industry, for shampoo and increase hair luster.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Additive AC-1200 series

[Chemical composition] fat amine

polyoxyethylene ether Twelve amineethoxylates

[type] non-ion

[Specification] AC-1201, AC-1202, AC-1203, AC-1205, AC-1210, AC-1215 (special specifications, can be developed and processed for.)

[qualification]

specifications	surface (25°C)	colour and lustre (Gardner method)	Total amine value mgKOH/g	The value of uncle amine mgKOH/g	water-solubility
AC-1201	Colorless transparent liquid	—	220~245	—	Insoluble in water, and soluble in organic solvents
AC-1202	Colorless transparent liquid	—	190~220	190~200	
AC-1203	Yellow viscous liquid	≤10	168~178	168~178	
AC-1205	Yellow viscous liquid	≤10	130~141	130~141	Dissolved in water and in organic solvents
AC-1210	Yellow viscous liquid	≤8	82~92	82~92	dissolve in water
AC-1215	Yellow viscous liquid	≤8	60~70	60~70	

[Performance and Application]

- 1, AC-1203 textile used as dispersing agent, antistatic agent, soft finishing agent, can also be used as latex stabilizer, acid corrosion prevention agent;
2. AC-1202, AC-1205, AC-1210, AC-1215 are used in pesticides, emulsifier used as antistatic agent and lubricant in textile industry, and can also be used as oil additive in water-based ink.
- 3, AC-1210 is especially suitable for ship electrostatic spraying additives, can reduce resistance, instead of high pressure spray paint process, improve working conditions. In viscose textile, used as a dispersant of inorganic salt, used as an emulsifier of fat and oil in industrial lubrication;
4. When AC-1215 is used for man-made fibers, adding the product to the spinning bath can prevent the deposition of silt on the nozzle and improve the transparency of alkaline fibers.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging. Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Insulation agent series

The defoaming agent, GP330

[Chemical composition]

Glycerol polypropylene

ether [type] non-ionic

CAS:25791-96-2

[qualification]

Appearance: colorless transparent viscous liquid (25℃ visual inspection)

Acid value: 0.5 mgKOH / g

Hydroxyvalue: 52 to 60 mg KOH / g

[Performance and Application]

- 1, has a more effective anfoaming effect than vegetable oil or advanced alcohols.
- 2, suitable for pharmaceutical, MSG, coating, sugar production as defoaming agent, has the effect of eliminating foam, and has the effect of inhibiting the recurrence of foam.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Defoaming king FAG470

[Chemical composition]

silicone compound

compound [type] non-ion

[qualification]

Appearance: milky white and sticky liquid

Solid content: 12 ± 1%

PH: 7.0~8.0 (1% aqueous solution)

Viscosity: 160 to 200 mpas (20℃)

Storage temperature: 4~40℃

Stability: 3000 rpm / 30 min, no stratification.

[Performance and Features]

FAG470 It is an efficient and stable silicone defoaming emulsion produced by the full set of production equipment, raw materials and formula of the United States United Carbon Company (UCC). Its quality is comparable to imported SAG470 and ranks the leading level in China. It is widely used for defoaming and defoaming in textile printing and dyeing, medical, pesticide, wastewater treatment, chemical industry and other production processes. In terms of knitting printing and dyeing, the defoaming performance is the same as that of DC544, and the price is only 1 / 5 to 1 / 6 of DC544, with significant economic benefits.

[apply]

1. Defoaming: After the foam is formed, add FAG470 and stir, and immediately defoaming.
2. Bubble suppression: before the foam is formed, FAG470 can be added to reduce the foam suppression.
3. Quantity: 5~100 ppm.
- 4, Usage: FAG470 can be added directly according to the dosage, or can be diluted with water before use, and then add water.
5. Use temperature: <100℃

[Packaging and Storage and Transportation]

20 Kg, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

Shelf life of six months.

Paper antifoaming agent XS-01

[Chemical composition] Fat alcohol and ethylene oxide propylene oxide condensation

[Type] Nonionic

[qualification]

Appearance: a colorless, transparent, oily, viscous liquid

PH Value: 5.0-7.0 (1% aqueous solution)

Molecular weight: 2700-3000

Hydroxyvalue: 17-21 mgKOH / g

Moisture: 0.5 (%)

[Performance and Features]

This product is widely used in paper making process, as well as paper black liquid and wastewater treatment antifoaming, chemical cleaning textile, printing and dyeing, rubber, leather and other water system defoaming.

[Application] Anti-foam: To eliminate the foam before the foam formation. Main use this product is widely used in paper making paper process, and paper black and wastewater treatment antifoaming, chemical cleaning textile, printing and dyeing, rubber, leather and other water system antifoaming application scope this product is widely used in paper making paper process, and paper black and wastewater treatment antifoaming, chemical cleaning textile, printing and dyeing, rubber, leather and other water system antifoaming.

[Amount] 0.5-5 of %, the specific amount is determined according to the sample.

[Packaging and storage] 200 Kg iron bucket, 50 Kg plastic bucket packaging. Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Antifoam agent XS-02

[Chemical composition] Fat alcohol and ethylene oxide propylene oxide condensation

[Type] Nonionic

[qualification]

Appearance: a colorless and translucent oil-shaped viscous liquid

PH Value: 5.0-7.0 (1% aqueous solution)

Moisture: 1 (%)

[Performance and Features]

This product is widely used in paper making process, as well as paper black liquid and wastewater treatment antifoaming, chemical cleaning textile, printing and dyeing, rubber, leather and other water system defoaming.

[Application] Anti-foam: To eliminate the foam before the foam formation. Main use this product is widely used in paper making paper process, and paper black and wastewater treatment antifoaming, chemical cleaning textile, printing and dyeing, rubber, leather and other water system antifoaming application scope this product is widely used in paper making paper process, and paper black and

wastewater treatment anoameless, chemical cleaning textile, printing and dyeing, rubber, leather and other water system anoameless.

[Amount] 0.5-5 of %, the specific amount is determined according to the sample.

[Packaging and storage] 200 Kg iron bucket, 50 Kg plastic bucket packaging. Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

The phosphate ester series

Alcohol (ether), phenolic ether phosphate esters (potassium salt)

[Type] anion

[specifications]

Afatty alcohol ether phosphate MOA-3P, MOA-9P, phenolic ether phosphate TXP-4, phenolic ether phosphate TXP-10, isodecol phosphate, and laurel yl phosphate MA24P

Fat alcohol ether phosphate potassium MOA-3 PK, phenolic ether phosphate potassium NP-4 PK, phenolic ether phosphate potassium NP-10 PK, isodecamol ether (6) phosphate potassium

(Special specifications, which can be developed and processed for you.) [qualification]

specifications	Appearance (25°C)	Solid content	pH price (2% aqueous solution)
Apid alcohol ether phosphate MOA-3P	Colorless or slightly yellow, transparent liquid	≥95%	≤3.5*
Adipose alcohol ether phosphate ester MOA-9P	Colorless or slightly yellow, transparent liquid	≥95%	≤3.5*
Phenolic ether phosphate ester TXP-4	Colorless or slightly yellow, transparent liquid	≥95%	≤3.0*
Phenolic ether phosphate ester TXP-10	Colorless or slightly yellow, transparent liquid	≥95%	≤3.0*
Isoxol phosphate	Colorless or slightly yellow, transparent liquid	≥95%	≤3.0*
Lauuryl phosphate ester MA24 P	White to pale yellow milk fat mass	≥97%	≤3.0*
Adipotic alcohol ether phosphate ester potassium salt MOA-3PK-40	Colorless to yellowish paste shape	≥40%	6~8
Adipotic alcohol ether phosphate ester potassium salt MOA-3PK-70	Colorless to yellowish paste shape	≥70%	6~8
Phenolic ether phosphate ester potassium salt NP-4PK	Light yellow viscous	50.0±2.0	5.0~7.0
Phenolic ether phosphate ester potassium salt NP-10PK-40	Yellow transparent paste shape	40.0±2.0	7.0~9.0
Phenolic ether phosphate ester potassium salt NP-10PK-80	Yellow transparent paste shape	70~80	7.0~9.0
Isoxol ether (6) phosphate potassium salt	Light yellow viscous	80.0±2.0	5.0~7.0

(* 10g / L, which was measured in a 10% aqueous ethanol solution.)

[Performance and Application]

name of a part	Performance and application
<p>Apid alcohol ether phosphate MOA 3 P</p> <p>Apoalcohol ether phosphate ester potassium salt MOA3PK</p> <p>Adipotic alcohol ether phosphate ester MOA 9 P</p>	<p>1, has excellent water solubility, decontamination, emulsification, lubrication, cleaning, dispersion, antistatic and rust prevention performance, excellent electrolyte solubility, stability to heat and alkali. Acid resistance, alkali resistance, hard water resistance, inorganic salt resistance, high temperature resistance, and good biodegradability, low irritation advantages. At the same time, it has a strong degreasing power.</p> <p>2, with antistatic, smooth, wettability, corrosion resistance, used as a raw material to improve the spinning performance of synthetic fiber processing. It has hygroscopicity, still has good antistatic properties at low temperature, and is widely used as an antistatic agent in chemical fiber oil agent. Used as industrial alkaline cleaning agent and dry cleaning agent, metal processing working liquid, organophosphorus pesticide emulsifier, the main component of textile oil agent.</p> <p>3. It is a good auxiliary solvent, emulsion polymer emulsification agent, pigment dispersing agent, cosmetic emulsifier, oil well drilling mud lubrication dispersion agent, deinking agent for paper industry, leather industry degrease agent, uniform dyeing agent, etc.</p> <p>4, has a good decontamination, used for the preparation of high efficiency and non-toxic cleaning agent. Widely used in the daily chemical industry, it is one of the main components of shampoo and a variety of cosmetics.</p> <p>5, high activity and stability can be obtained around PH 6 to 7. Recommended dosage is 3~12%.</p>

<p>Phenolic ether phosphate ester TXP-10</p> <p>Phenolic ether phosphate ester potassium salt NP-10PK</p>	<p>1, strong alkali, with good net washing ability, soluble in organic solvents, soluble in water,</p> <p>2. With strong antistatic, emulsifying, smooth and soft properties; used as washing enhancer; used for preparing dry detergent; used as emulsifier added in metal detergent; emulsifier for emulsion polymerization; emulsifier added in the production of pesticides and cosmetics, and antistatic agent.</p>
<p>Phenolic ether phosphate ester TXP-4</p> <p>Phenolic ether phosphate ester potassium salt NP-4PK</p>	<p>1. It is anionic type, often used with anion, non-ion and amwitterion, excellent cold resistance, soluble in organic solvents, acid resistance, alkali resistance, high temperature resistance, good stability; with excellent decontamination, emulsifying, wetting, dispersion, antistatic properties, strong degreasing force. Used in domestic, industrial detergents, such as preparing dry cleaning agent, porcelain surface, glass cleaning agent, metal cleaning agent.</p> <p>2, textile industry additives: such as the preparation of spinning oil agent, penetration agent, cooking agent, silk light agent;</p> <p>3, papermaking industry additives: such as the preparation of deinking agent;</p> <p>4, leather industrial additives: such as the preparation of degreasing agent, uniform dyeing agent;</p> <p>5, other industrial additives: such as organophosphorus pesticide emulsifier, metal cutting lubricant, electroplating liquid additives, etc.</p>
<p>Isoxol phosphate</p> <p>Isotrixitol ether (6) potassium phosphate salt</p>	<p>It has excellent antistatic property, smoothness and softness, can improve the moisture absorption of fibers, and can adjust the dynamic friction coefficient between fibers.</p>
<p>Lauaryl phosphate ester MA24 P</p>	<p>1, safe and non-stimulating: the product structure is similar to natural phospholipid, the nature is very mild, almost no irritation to the skin and eyes, is an ideal cream emulsifier.</p> <p>2, excellent emulsification, solubilization and dispersion performance: can emulsify a variety of oil phases, including silicone oil.</p> <p>3, low surface tension, rich and delicate foam, decontamination and washing moderate: the use of rich and delicate milk foam, easy to clean, the skin feels very good after cleaning, clean and not tight, feel comfortable.</p> <p>4, excellent moisturizing performance: when cleaning the skin, it can give the skin a soft, smooth and refreshing feeling. Anti-static, soft effect is obvious, but also suitable for shampoo, hair supplies additives, fabric fiber finishing agent.</p> <p>5. Acid and salt resistance: phosphate esters stored at pH=2 for 12 months are decomposed less than 10% decomposition; if stored in neutral or slightly acidic for one year or longer.</p> <p>6. Good biodegradability: The biodegradation of alkyl phosphates is similar to alkyl alcohol sodium sulfate and can decompose into carbon dioxide and phosphate ions. For example, after 10-15 days, bisdecyl phosphate is close to 100%, while sodium dodecyl benzene sulfonate is less than 20%.</p> <p>7. Low toxicity: potassium phosphate is a low toxicity, LD50 / (mg / kg) is 74000 for mice, and LC50 / (mg / kg) is 3400~12800 for fish.</p> <p>Use and dosage:</p> <p>1, purpose: especially used to prepare the market popular foam cleanser and foam cleanser, also applies to prepare relaxed and smooth bath solution and other high-grade low irritant cleaning products such as shampoo, foam cleanser, bath solution, hand sanitizer (king ® one of the main ingredients of soft cleanser) and mild infant care products, childrens bath, shampoo supplies.</p> <p>2. MAPK is slightly worse than other anionic surfactants, so attention</p>

	<p>should be paid to the addition of anti-hard water agents (such as EDTA) or hard water-resistant surfactants (such as sulfobetaine) with the formula, so as to play its excellent performance.</p> <p>3, recommended dosage: foam cleanser: 10~50%, shower gel 8~15%.</p>
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[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

High carbon alcohol phosphate ester

Appearance: colorless or pale yellow transparent solid (25°C)

Acid value: 155–175 mgKOH / g

Content: 98%

Water: 2%

Polyol phosphate ester is a new type of water treatment agent with good scale resistance and corrosion resistance. Because multiple polyoxvinyl groups are introduced into the molecule, it not only improves the corrosion suppression performance, but also improves the ability of calcium scale resistance and sediment dispersion. It has excellent inhibition effect on barium and strontium scale deposition in water which cannot be controlled by the existing scale inhibitor in China, and also has excellent scale resistance effect on insoluble salt deposits such as calcium carbonate and calcium sulfate in water. It has cathodic protection effect on steel, and the corrosion inhibition effect is better than the existing similar products in China. Polyol phosphates are well miscible with water stabilizers such as polycarboxylates, organic phosphate, inorganic phosphate, and zinc salts.

Main use: chemical fiber oil agent as a smoothing agent

Castor oil phosphate ester

Composition: ricor oil phosphate ester

Type: Non-ionic /

anionic technical

index

Appearance (25°C); tan, transparent oil body

PH value: 5.0~7.0 (can be adjusted according to the use requirements)

Emulsion stability: 24 hours without stratification, no oil lick (leather with neutral oil, diluted 1:9 into emulsion)

Performance and application: with low surface tension, good emulsification, strong decontamination, anti-static, non-toxic, non-irritant, electrolyte resistance and other excellent properties. It can be used for emulsifier and additives of daily chemicals, preparing various preparations of washing, cleaning, washing and dry cleaning, dispersing agent in organic and polymer synthesis, antistatic agent in textile industry, and fat adding agent in leather industry. Is a new surfactant.

Packaging and storage: 50kg plastic bucket or 200kg iron bucket. Storage and transport as general chemicals. Store in a dry and ventilated place with a shelf life of two years.

Anti-static agent series

anstatic agent B

[Chemical composition]

condensations of alkylamines and

ethylene oxide [type] non-ionic

[qualification]

model	B1	B2
name of a part	Double (β -hydroxyethyl) coconut	Double (β -hydroxyethyl) stearic amine
Appearance (25°C)	Colorless to pale yellow liquid	Colorless to pale yellow wax content
Amine values of mgKOH / g	195-220	150-165
content	$\geq 99\%$	$\geq 99\%$

[Performance and Application]

1. This series of products are dissolved in general organic solvents and inorganic acids, and form colloids in water.
- 2, used as antistatic agent, emulsifier, wetting agent, lubricant. It can be used as pesticides and herbicides, oil additives, and textile lubricants. Used as an emulsifier for water-based ink and cosmetics.
- 3, double (β -hydroxyethyl) coconanine for polypropylene, ABS internal antistatic agent. It is also used as an antistatic agent and preservative for steam generation and circulation systems.
- 4, double (β -hydroxyethyl) stearamine is a special plastic antistatic agent, used for polystyrene and polystyrene-acrylonitrile internal antistatic agent, with good compatibility, heat resistance, stability, non-toxic characteristics, mainly used for packaging film, daily plastic containers, mining plastic pipe, polypropylene fiber, etc. For example, 100 parts of high pressure polyethylene add 0.25 parts of this product (including 55% auxiliary materials) to make mining pipeline, the surface resistance is stable at $10^8 \Omega$, in line with the technical requirements of mining air duct. In the polypropylene resin
The washing machine liner made of 0.3~0.5% of this product (including 55% excipients) is not easy to be stained and easy to clean. Also used as an oil emulsifier with anticorrosive properties.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Net detergent

Low-bubble cleaning agent GPE-3000

[qualification]

Appearance: clear liquid

Color: 20 (Pt-Co)

Molecular weight: 3,000 \pm 100

Acid value: 0.5 mg KOH / g

Content (%): 99%

PH Value (1% aqueous solution):

5.0~7.0 [Performance and Application]

1, belongs to the polymer surfactant, with unique properties, generally not hygroscopic, toxicity and foaming force are low, good dispersion force, with strong emulsification force, with good low temperature fluidity.

2, for low foam detergent, emulsifier, defoam agent and fabric dye, antistatic agent, metal cutting coolant, high-speed spinning oil agent lubricant and adhesive.3, used in chemical fiber oil agent as a smoothing agent.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging. Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Net lotion 6501

[Chemical composition] Coconut oil fatty acid

diethanolamide, Fatty Acid alkanol amide CAS

No. 68603-42-9

[Alias] Ninar, foam stabilizer CD-110,704

[Type] Nonionic type

[Specification] 6501 (1:1), 6501 (1:1.5),

6501 (1:2) [Technical index]

name of a part	Appearance (25°C)	amine value mgKOH/g	PH price (1% aqueous solution)	HLB price
6501 (1:1)	Yellow viscous liquid	50	9~10.5	3~7
6501 (1:1.5)	Yellow viscous liquid	80~120	9~11	14~18
6501 (1:2)	Yellow viscous liquid	120~160	9~11	24~28

[Performance and Application]

1. The product has wetting, clean washing, emulsification, softness and other properties, and has a good bubble stabilizing effect on anionic surfactants. It is an indispensable raw material in liquid detergent, liquid soap, shampoo, cleaning agent, face washing agent and other cosmetic products. When used together with soap, the hard water resistance is good.

- 2, can also be used as a emulsion stabilizer for cream products, and widely used in shoe polish, printing ink, drawing supplies, etc.
- 3, in the textile printing and dyeing industry, as the fabric detergent, and other detergent ingredients and thickagent. It is one of the components of the synthetic fiber spinning oil agent such as polypropylene.
- 4,6501 is alkalcohol amide, can be used to prepare metal rust detergent and coating stripping agent.
5. This product has a good thickening effect on the liquid products with anionic surfactant as the main raw material.
- 6, this product has a certain antistatic conditioning effect, small irritation to the skin.

7, emulsifier as oily raw materials, widely used in a variety of cosmetics and surfactant products.
8, has good foaming, foam performance, in the detergent foam, widely used as foam improvement products.[Packaging and Storage and Transportation]
200 Kg iron bucket, 50 Kg plastic bucket packaging.
Storage and transport as general chemicals. Store in a dry and ventilated place.
The shelf life is two years.

Clean detergent AR-812

[Chemical composition] non-ionic
surfactant complex [type] non-
ionic
[HLB value] 11~12 (theoretical
value, for reference)
[Technical index]

Appearance: colorless to slightly yellow oil-like substance
PH: 5.0~7.0 (1% aqueous solution)
Turb: 55 x 5°C (1% aqueous)

[Performance and Application]

- 1, easy to soluble in water, with excellent decontamination, emulsification, wetting, dispersion performance, a variety of fiber light scale and heavy scale has a good carrying force and diffusion force.
2. In the printing and dyeing industry, it is used as the cleaning agent for cotton, polyester / cotton, polyester / adhesive and composite fabric, as well as sizing, sizing, cleaning, washing, training and dyeing.
- 3, it can be used as a wetting agent and homogenizer for direct dyes, reducing dyes and acid dyes, and has good peeling and net washing effect on active, ice dye and dispersed dyes.
- 4, used as a retreatment agent and peeling agent for printing.
- 5, used as wool cleaning agent and deasing agent in wool spinning industry, also used in the pretreatment of wool shrinkage prevention, has good permeability performance and net washing performance in acid bath.
- 6, can prepare a variety of liquid detergents for household, industry, has a strong decontamination ability.

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.
Storage and transport as general chemicals. Store in a dry and ventilated place.
The shelf life is two years.

POEA-15

[Chemical composition] the
condensate of fatty amide and
ethylene oxide [type] nonionic type
[qualification]

Appearance: brownish-yellow, oily or thick material
PH: 8.0~10.0 (1% aqueous solution)
Water solubility: the 10% aqueous solution is clear and transparent
Solid content: 99%

[Performance and Application]

This product has excellent emulsification, clean washing, antistatic, hard water resistance, degrease to oil pollution and other properties, good compatibility. Widely used in heavy scale type liquid washing; because this product has a certain protection effect on human body, it is widely used in daily cosmetics, such as shampoo, bath liquid; in the textile industry, often used in wool washing, it is strong adsorption to fiber, after washing, has a certain antistatic effect, can be used as a component of fiber treatment agent; in metal processing industry as surface oil, grease detergent, can suppress

Make steel rust, used as a
metal drawing lubricant. [Packaging
and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

section two

Textile printing and dyeing additives series

Textile preprocessing additives series

Anionic pretreatment surfactant series

[Chemical composition] a derivative of an alcohol or an alcohol ether

[Type] anionic type

[Specifications] OEP-98, TEP, RP-98, KT-08, and OEP-70

[qualification]

specifications	Appearance (25℃)	pH price (1% aqueous solution)	content	penetrability	Base resistance
OEP-98	Light yellow, transparent, viscous liquid	≤ 3	$\geq 98\%$	6~8s (5g/L, 100gNaOH/L)	250gNaOH / L without floating oil
TEP	Light yellow, transparent, viscous liquid	≤ 3	$\geq 98\%$	$\leq 60s$ (5g/L, 100gNaOH/L)	—
RP-98	Light yellow, transparent, viscous liquid	≤ 3	$\geq 98\%$	5s (5g / L, 25℃, Neutral)	—
KT-08	White to yellow paste	5~8	70±2%	$\leq 5s$ (5g/L, 280gNaOH/L)	$\geq 250gNaOH/L$
OEP-70	Light yellow paste	5~8	70±2%	$\leq 5s$ (5g/L, 200gNaOH/L)	$\geq 200gNaOH/L$

[Performance and Features]

specifications	Performance and application
OEP-98	<p>1, this product has strong degreasing, emulsified, dispersion, infiltration and net washing force, oxidation resistance, reducing agent, and has a good stability effect on hydrogen peroxide.</p> <p>2, this product is mainly used for the manufacture of anti-concentrated alkali concentrate and other printing and dyeing additives.</p>
TEP	<p>1, this product in strong alkali, high temperature conditions have a strong permeability, with excellent emulsification, oil, washing function. In the alkali and oxygen grouting, the pulp, significantly improve the wool efficiency.</p> <p>2. It can be combined with OEP-70, OASE, RP98 and other on to make high efficiency and concentrated alkali essence, mainly used for the manufacture of penetrant, refinement and detergent.</p>
RP-98	<p>This product has a strong wetting, emulsification and dispersion force under neutral conditions. Mainly used in the manufacture of osmotic agent, wetting agent. In the sodium sulfite bleaching process, the condensation of other surfactants is inhibited to prevent the production of white spots.</p>
KT-08 OEP-70	<p>This product does not contain phosphorus and is an environmentally friendly product. This product has no surface activity under neutral conditions and has a strong penetration in concentrated lye, especially suitable for the manufacture of filament photopermeant or anti-strong alkali concentrate.</p>

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Printing and dyeing additives series

equalizing agent AN

[Similar product name] nicotine AN,
homogenizer DA [chemical
composition] fat amine
polyoxyethylene ether
[Type] Nonionic (microband cation)
[HLB value] 12.5~13.5 (theoretical value, for reference)

[qualification]

Appearance: yellow oil or paste shape
PH: 6.0-7.0 (direct test)
Total amine value: 70 soil: 5 mg KOH / g
Teramine value: 70 x 5 mg KOH / g
Total tertiary amine value difference: 5 mg KOH / g

[Performance and Features]

- 1, non-ionic in alkaline and neutral media, cationic in acidic media, with excellent emulsifying and uniform dyeing performance, stable to acid, alkali and hard water, and can be mixed with other ionic active substances in alkaline and neutral solutions.
- 2, in the hair, hemp, silk, synthetic fiber as a uniform dyeing agent, improve the concentration is the ideal peeling agent.
3. The uniform dye of acid complexation dye can reduce the amount of sulfuric acid in the dyeing bath and reduce the strong damage of the fabric.
- 4, as neutral dye, reducing dye dye.
5. As the peeling agent for wool and nylon fabric, used for wool peeling and uniform dyeing, it can improve the appearance of the fabric, and improve the wear fastness of the fabric in the dyeing and printing of ice dyeing dye.

[packaging and storage]

50 Kg plastic bucket packaging.
Storage and transport as general chemicals. Store in a dry and ventilated place.
The shelf life is two years.

Homogenizer SE (components A and B)

[qualification]

component A		component B	
form	Glycerol ether oleic acid ester	form	The aromatic compound, polyether ammonium sulfate
ion	Non-ionic type	ion	anionic
qualification		qualification	
surface	Light yellow to brownish yellow oil substance (25°C)	surface	Light yellow to brownish yellow thick substance (25°C)
acid value	≤10mgKOH/g	pH price	4~6 (1% aqueous solution)
Koettstorfer number	90~105mgKOH/g	actives	≥99% (wt%)
Performance and application: 1, this product is easy to disperse in water, dissolved in most organic solvents; 2. This product is used as A component of SE of high temperature and high pressure dyeing of polyester fiber; 3. This product is used as an emulsifier in general industry.		Performance and application: 1, this product is easily soluble in water and general organic solvents, acid resistance, high temperature resistance, with good dispersion, emulsification and uniformity; 2. This product is used as the B component of SE for high temperature and high pressure staining of polyester fiber; 3. This product is used as an emulsifier, dispersion agent (rosin dispersion agent) and net lotion in other industries.	

[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

Textile and finishing aid series

Polyethylene emulsion HA-soft80 (fiber protector)

[Product Introduction]

HA-soft80 is a non-ionic AC polymer combination polyethylene copolymer product, and the special surfactant and its unique formula are fused into an emulsion by high pressure. Non-toxic, tasteless and non-corrosive non-ionic emulsion, easily soluble in water, with good acid resistance, alkaline resistance, electrolytic resistance, with the resin bath, not easy to layer, condensation. The emulsion has a constant composition, a good chemical stability, and a long-term preservation without stratification. Mainly used for cotton, polyester card, polyester cotton, medium and long fiber and other fabrics smooth, anti-wrinkle finishing. Especially improve the sewing ability of the fabric to prevent the production of needle holes. The fabric feels soft and elastic after treatment, which improves the fold back Angle.

Product alias: wax emulsion, emulsified wax, polyethylene softener, polyethylene emulsion

[qualification]

Appearance: slightly yellowish-green translucent liquid

Solubility: easily soluble in water

Ionic properties: non-ionic properties

pH pH: 8~10

Content: 40 ± 2% (per customer requirements)

[Performance and Features]

- 1, this product can be used in the water-based coating system, floor, leather, furniture, automobile, paper and other light agent, light oil field.
- 2, can be widely used in the production of water-based ink, liquid shoe oil, metal release agent and other industries.
- 3, used in the wood-based panel industry. In the production of fiberboard, particle board can greatly reduce the cost.
- 4, in the paper industry, with emulsion wax instead of rosin gum, not only can improve the quality of paper but also can reduce the production cost.
- 5, used in agriculture, for the preservation of fruits and vegetables, to prevent the aging, drought, freezing damage, sunburn on its harmful effects. After picking the flowers, soaking them in water and then treating them with emulsified wax can prolong the life of the flowers.
- 6, Emulsion wax can be used in the ceramic production of the lubricants, plastic products and automotive lighting agent, etc.
- 7, polyurethane industry and other special industries of excellent release agent.
- 8, added to the leather agent, can increase the wax sense and brightness of leather; added to the color pulp, can also play the role of leveling, and can prevent the coating in hot sticky.
9. This product has good thermal stability, not yellowing. Used in the textile industry, mainly used as a softener and sizing aid. Widely used in polyester / cotton, polyester / adhesive (nitrile), cotton fabric, pure chemical fiber fabric finishing and resin finishing, the softener can evenly penetrate into the textile yarn above, forming a layer of oxidized polyethylene film wrapped outside the yarn, so it can make the finishing fabric has a soft and smooth feel. At the same time, it can improve the physical properties of the fabric, reduce the wear and loss, improve the tear resistance, and have no impact on the friction color fastness and wet wash fastness. Add fold regeneration Angle and can be used with various additives in resin finishing and general finishing.
- 10, for the production of adhesives.

[apply]

Amount: 10~30g / L

Process: two soaking and two rolling, pre-baking, baking 130~180℃

[packaging and storage]

50 Kg plastic bucket.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is one year.

Special additives

Triethanolamine oleate soap

[Chemical composition] oleic amine salt [type] anion

CAS No:10277-04-0

[Technical indicators]

Appearance: brown thick material (25℃)

PH: 7~9 (1% aqueous solution)

Content: 98%

[Performance and Application]

This product can be used as a water-based lubrication additive, widely used in the field of lubrication and rust prevention, is the main component of water-based cutting fluid. [Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Diethanolamide of oleate ODEA

[Chemical composition] Fatty acids and diethanolamine condensation into [type] nonions

[qualification]

specifications	Appearance (25℃)	Solid content (%)	Total amine value (mgKOH/g)	acid value (mgKOH/g)	pH price (1% aqueous solution)
Diethanolamide of oleate ODEA	Yellow viscous liquid	≥99	≤45	≤15	8~11

[Performance and Application]

specifications	Performance and application
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ODEA	<p>1. Dispersed in water, soluble in general organic solvents, with good emulsifying, anti-static, anti-atomization, anti-friction and anti-rust properties.</p> <p>2. Use as oil additive; antistatic agent and antifriction agent of polymer materials; boiler cleaning and anti-rust dispersant; fiber processing lubricant.</p>
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[Packaging and Storage and Transportation]

200 Kg iron bucket, 50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

dispersant IW

[Chemical composition]

fatty alcohol

polyether [type] non-

ionic

[HLB value] 17~18 (theoretical

value, for reference) [Technical

index]

Appearance: a white flaky solid

PH: 5~7 (1% aqueous solution)

Tidity point: 94°C (5% NaCl solution)

Water content: 1.0%

[Performance and Application]

1. This product is easily soluble in water and can be mixed with all kinds of surfactants.

Resistance to acid, alkali and hard water, with good dispersion and emulsifying properties.

2, used for hair / nitrile mixed textile one bath dyeing as a strong dispersing agent.

3, the use of acid dyes and cationic dyes as a precipitation agent.

4, used as a raw material for industrial detergent, glass fiber emulsifier.

[Packaging and Storage and Transportation]

20 kg woven bag packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Disperse the solubilizer, S

[Chemical composition] Modicompound of

non-ionic surfactant [type] anion

[qualification]

Appearance: yellow thick liquid or paste

Solid content: 50%

Alcohol-insoluble material: 2%

PH: 4~7 (1% aqueous solution)

[Performance and Application]

1, this product is easily soluble in water, has excellent net washing, emulsification, dispersion, solubilizing effect, can withstand high concentration of electrolyte, is widely used in liquid detergent and textile additives, emulsion polymerization and other fields.

2, professionally used as a rosin efficient emulsifying dispersion, in the paper industry for the manufacture of high dispersion rosin, can be made with a solid content of 30% dispersed rosin, and can be diluted at will.

3, professional use as the dispersion of the essence, the production of solvent-free perfume.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Solubilized agent, S-15

[Chemical composition] alcohol ether complex

[Type] anionic type

[Technical index]

Appearance: light yellow paste

PH: 4~7 (1% aqueous solution)

Turbpoint: > 100℃ (1% aqueous)

[Performance and Application]

- 1, soluble in water and some organic solvents, with good solubilization, washing, emulsification and dispersion properties.
2. It is used as a solubilizer for electroplating brightening agent (benzyl fork acetone). Usage:
Benzyl fork acetone: S-15=1:7~9 (weight ratio), during continuous electroplating in summer, it can avoid the turbidity of electroplating liquid, and its performance is obviously better than other similar products.
- 3, used for the preparation of metal cleaning agent, and used with other surfactants, the effect is good.
- 4, on the emulsion polymerization, used as an emulsifier.
5. This product should not be used under alkaline conditions.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is one year.

age resister SP

[Chemical composition] styrene and phenol

[Type] Aromatic

compounds [Technical
indicators]

Appearance: light yellow and sticky paste

Represent rate: $n=1.5985\sim1.6020$ (25℃)

[Performance and Application]

- 1, SP is dissolved in ethanol, acetone, benzene, and hydrocarbon solvents.
2. SP is a non-polluting aging agent used in natural and synthetic rubber products. It does not precipitate and has good dispersion. Suitable for white and light-colored products. Mainly to prevent thermal oxygen and bending and cracking aging. Amount: 0.5~3%.
- 3, used as antioxidant for polyolefin and polyformaldehyde, the amount of polyolefin is 0.01~0.5%.
- 4, SP can also be used as a stabilizer for synthetic rubber such as butyl benzene, isoyl, ethylene and propylene, with a dosage of 0.01~0.5%.
- 5, used as chemical synthesis intermediates.

[Packaging and Storage and Transportation]

50 kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Moisturizer G- -18

[Chemical composition] condensates
of polyols and ethylene oxide

[type] non-ionic

[qualification]

Appearance: colorless to pale yellow, viscous liquid

Hydroxyvalue: 175~205 mgKOH / g

Acid value: 0.5 mgKOH / g

Water: 1%

[Performance and Application]

1. This product is soluble in water, ethanol, not soluble in oil, and can dissolve with cationic, anionic and non-ionic surfactants.
2. used as moisturizer, lubricant and foam improvement for toilet products.
- 3, and are used as intermediates in the synthesis of fatty acid esters.

[Packaging and Storage and Transportation]

200 kg iron bucket, 50 kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place.

The shelf life is two years.

Emulsion polymerization emulsifier C0436

[Chemical composition] Alkyl

phenol polyoxyethylene ether

ammonium sulfate [technical index]

Active substance content (%) 58-60

Physical state, 25°C slightly yellowish to colorless transparent liquid

[Performance and Application]

In the emulsion polymerization as a multifunctional emulsifier and stabilizer, can be widely used in the emulsion polymerization of vinyl acetate, acrylic acid, styrene and styrene / butadiene with various monomers. There are the following advantages:

A) Excellent wetting, dispersion, and emulsifying ability

B) An emulsifier for good aromatic solvents

And c) detergent under neutral or slightly alkaline conditions

And d) a wetting agent for fabric treatment.

[Packaging and Storage and Transportation]

50 Kg plastic bucket packaging.

Storage and transport as general chemicals. Store in a dry and ventilated place. The shelf life is two years

Ricor oil phosphate ester salts

Composition: ricor oil phosphate ester

Type:

anionic

technical

index

Appearance: yellow and transparent oil content

Containing amount: 50% -70%

Acid value / (mgKOH / g): 10-45

Inorganic phosphorus: less than 1.5%

Total phosphorus: below 10%

Dilution: it can be diluted with any proportion of water

Performance and application: with good surface activity, can be widely used in emulsifier, rust agent, lubricant, anti-fouling agent, bubble suppression agent, antistatic agent, dispersing ant and leather plus ester agent.

Packaging and storage: 50 kg plastic bucket or 200 kg iron bucket.

Storage and transport as general chemicals. Store in a dry and ventilated place with a shelf life of two years.

TTolate PETO

[Name of similar products] pentaerythrityl oleate

[Chemical composition] esters of pentantetritol and oleic acid

[Type] Non-ionic

[Technical index]

Appearance: light

yellow clear liquid

acid value (mgKOH /
g): 1

Hydroxyl value (mgKOH / g): 15

Saponification value

(mgKOH / g): 180~190

Viscosity (m m²/s) 40℃:

60~70 [Performance and

Application]

1, ester ester has excellent lubrication performance, high viscosity index, good flame resistance, biodegradation rate of more than 90%, is 68 synthetic ester fuel combustion hydraulic oil ideal base oil;

2, can be used for the deployment of environmentally friendly hydraulic oil, chainsaw oil and engine oil for water yacht;

3. It is widely used as an oily agent in the cold rolled liquid of steel plate, steel pipe drawing oil and other metal processing liquid.

[Packaging and Storage and Transportation]

180 Kg iron bucket, 50 Kg plastic bucket packaging. This product is non-toxic and nonflammable, and is stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

glycerin trioleate

alias: glyceryl trioleate; (Z) -9-octadecenoic acid-1,2,3-propyl ester;
Trioleide; glyceryl trioleate

English name: Glycerol Trioleate / Trio lein

Composition: glycerlycertrioleate

Chemical formula: $(C_{17}H_{33}COOCH_2)_2CHOCOC_{17}H_{33}$

Type: non-ion

CAS number: 122-

32-7 Technical

indicators

Appearance: Light yellow for clear liquid

Acid value / (mgKOH / g): 5

Saponification value / (mgKOH / g) 185-205

Water: 1%

Coagulation point (°C): 50°C

Performance and application: insoluble in water, slightly soluble in ethanol, soluble in chloroform, ether, carbon tetrachloride.

Generally used as an emulsifier, it can be used in the textile printing and dyeing industry. It can also be used in the textile industry; smooth agent for metal after processing; emulsifier and emulsion stabilizer, wetting agent.

[Packaging and Storage and Transportation]

180 Kg iron bucket, 50 Kg plastic bucket packaging. This product is non-toxic and nonflammable, and is stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years.

glycerol tristearate

English name:

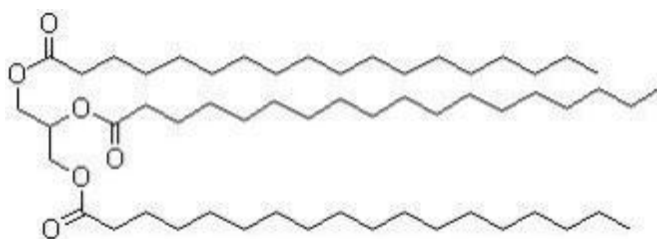
Glyceroltristearat

e molecular

formula: C₅₇ H₁₁₀

06

Molecular weight: 891.49



molecular

CAS No.: 555-43-1

qualitative index

Appearance: white solid

Acid value (mgKOH / g): 5

Saponification value (mgKOH

/ g): 191-202 freezing

point (°C): 56-60

Physical and chemical properties: odorless and sweet. Can be soluble in hot alcohol, chloroform, benzene and carbon disulfide, insoluble in water, petroleum ether, ether and cold alcohol. The melting point is about 55°C.

Function and use: this product has the function of emulsification, lubrication, hardening, etc., often used in manufacturing cream, ointment, lotion, etc. There is also a wide range of uses in the Japanese chemical industry, used for the manufacture of cream, soap, shampoo, waterproof paper, adhesive and other daily chemical products. For metal polishing, also for adhesives, polburnishes and waterproof paper production. Used in the textile industry sizing and leather to add fat process as an auxiliary agent.

Application examples: 1. Milk dew-like antiperspirant: glycerol tristearate 2.5g, glycerol monostearate 3.5g, 0.3g of octadecyl dimethylamine, 0.5g of liquid paraffin, 0.1g of lactic acid, diethyl chloramide 1g, 50% alkaline aluminum chloride 40ml, distilled water to 100ml. Often legal system into emulsion is obtained.

2. Massage cream, lanolin 10g, liquid paraffin 30g, white vaseline 20g, ash 10g. Glycerol tristearate 5g, glycerol monostearate 2.5g, borax 0.2g, 0.5g, incense, antioxidant amount, distilled water added to 100g, often legal frost agent is obtained.

Coability change: this product meets strong oxidant and acid oxidation, decomposition reaction, alkali will produce soap. [Packaging and Storage and Transportation]

180 Kg iron bucket, 50 Kg plastic bucket packaging. This product is non-toxic and nonflammable, and is stored and transported as general chemicals. Store in a dry and ventilated place. The shelf life is two years

