KEENPOINT TECHNOLOGY INDUSTRY LIMITED SICHUAN JINZHUANG TECHNOLOGY CO LTD

MEISHAN ECONOMIC DEVELOPMENT ZONE SICHUAN PROVINCE,CHINA

Product presentation

Sodium Lauryl Ether Sulfate (SLES)

Molecular Formula:

RO(C2H4O)n-So3Na

Performance:

It is an anionic surfactant， SLES for short. Soluble in water, soluble in ethanol, strong compatibility. It has excellent decontamination, wetting , foaming, emulsification and other properties, and good biodegradability.

Application scenario:

It is widely used in washing industry and cosmetics industry, such as compound washing powder, liquid detergent, high-grade washing liquid, shampoo, body wash and so on. Also used in textile industry wetting agent, dyeing aid, cleaning agent and so on.

Packaging:

SLES/70110kg, 170kg plastic drums, bulk.

Test Item	Specification
Appearance(25。C)	White or light yellow viscous liquid
Odor	No strange odors
Active matter(%)	70±1
Unsulfated matter(%)	2.5
Sodium sulfate(%)	≤1.5
Color(5%Am.aq,sol.)Klett	≤10
pH-value(2%sol)	8.5-9.5

Linear Alkyl Benzene Sulfonic Acid(LABSA)

Branched Alkyl Benzene Sulfonic Acid(BAS)

Molecular Formula:

R-C6H4-So3H

Performance:

LABSA is an anionic surfactant. With decontamination, wetting, foaming,

emulsification, dispersion and other properties. This product has strong detergency,

good foam force and foam stability, good stability in acidic, alkaline and some oxides

(such as sodium hypochlorite, peroxide, etc.) solution, and good compatibility with

other surfactants and auxiliaries.

BAS is an anionic surfactant. It has good properties of degreasing, wetting,

permeation and emulsification. The chemical properties of this product are stable, in

acidic or alkaline media and heating conditions will not decompose, foam force and

foam stability is good.

Application scenario:

LABSA used as raw materials for the production of various detergents and emulsifiers,

such as washing powder and tableware detergent in the daily chemical industry,

cleaning agents in the textile industry, dyeing additives, degreasing agents in the

electroplating industry, tanning industry, and deinking agents in the paper industry.

BAS is used as raw materials for the production of various industrial detergents and

emulsifiers, cleaning agents for textile industry, dyeing additives, degreasing agents

for electroplating industry and leather industry, deinking agents for paper industry,

emulsifiers for pesticide industry, and oil field industry.

Packaging:

(LABSA)210KG plastic drums, bulk

(BAS)210KG plastic drum

Test Item	Specification	
Appearance(25。C)	Brown Viscous Liquid (LABSA)	Brown Viscous Liquid (BAS)
Active matter(%)	≥96	≥94
Unsulfated matter(%)	≤2.0	≤4.0
Free sulfuric acid(%)	≤1.5	≤1.5
Color Klett	≤30	≤100

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Sodium Alpha Olefin Sulfonate(AOS/35)

Molecular Formula:

R-CH=CH-(CH2)n-So3Na

Performance:

It is an anionic surfactant, AOS for short. It has excellent cleaning power, good foaming power, emulsifying power and other properties. Easily soluble in water, with calcium soap dispersion, hard water resistance; Good biodegradability, mild to skin; Good compound performance; Easy to rinse.

Application scenario:

Widely used in daily chemical industry, such as: for washing powder, composite soap, tableware detergent and phosphorus free detergent; Used for shampoo and bath

Detergent, facial cleanser and other cleaning cosmetics; Used in industrial detergents, such as oil fields, mines, construction, fire fighting, textile printing and dyeing; Can also be used for in the construction industry as air entraining agent and expansion agent, fire fighting foam agent.

Packaging:

AOS/35 200kg plastic drums, bulk

Test Item	Specification
Appearance(25。C)	Light yellow transparent liquid
Odor	No strange odors
Active matter(%)	34~36
Free oil (%)	≤1.5
Inorganic sulfate (%)	≤1.3
Free base (%, in NaOH)	≤0.3
Color(5%Am.aq,sol.)Klett	60

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Sodium Alpha Olefin Sulfonate(AOS powder)

Molecular Formula:

R-CH=CH-(CH2)n-So3Na

Performance:

It is an anionic surfactant, AOS for short. It has excellent cleaning power, good foaming power, emulsifying power and other properties. Easily soluble in water, with calcium soap dispersion, hard water resistance; Good biodegradability, mild to skin; Good compound performance; Easy to rinse.

Application scenario:

Widely used in daily chemical industry, such as: for washing powder, composite soap, tableware detergent and phosphorus free detergent; Used for shampoo and bath

Detergent, facial cleanser and other cleaning cosmetics; Used in industrial detergents, such as oil fields, mines, construction, fire fighting, textile printing and dyeing; Can also be used for in the construction industry as air entraining agent and expansion agent, fire fighting foam agent.

Packaging:

AOS/92 25kg composite bag

Test Item	Specification
Appearance(25。C)	White or yellowish powder
Odor	No strange odors
Active matter(%)	90~94
Free oil (%)	≤2
Inorganic sulfate (%)	≤5.5
Free base (%, in NaOH)	≤1
Color(5%Am.aq,sol.)Klett	≤50
Water content(%)	≤3
Whiteness	≥80

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Sodium lauryl sulfate(SLS powder)

Molecular Formula:

RO-SO3NaR=C12-14 alkyl

Performance:

Is an anionic surfactant, referred to as SLS, easily soluble in water, with excellent emulsification, foaming, penetration, deconsolidation and dispersion properties, foam rich, delicate; Good compatibility; It has good resistance to hard water and fast biodegradation.

Application scenario:

Widely used in toothpaste foaming agent, cosmetic emulsifier: shampoo, bath agent and other washing cosmetic surfactants. It is also widely used in the pharmaceutical industry, and is widely used as emulsifier, detergent, dispersant, wetting agent and foaming agent in pharmaceutical manufacturing. In the construction industry as a concrete additive, blowing agent, air entraining agent, etc. It can also be used as levelling agent and mineral flotation agent in printing and dyeing industry.

Packaging:

SLS Powder 20Kg composite bag (powder)

Test Item	Specification	
Appearance(25。C)	White or yellowish powder	
Odor	No strange odors	
Active matter(%)	≥93	≥95
Free oil (%)	≤3	≤3
Inorganic sulfate (%)	≤5.5	≤2.5
Water content(%)	≤3	≤2
Color(5%Am.aq,sol.)Klett	≤10	≤10
PH(1% sample solution)	7~10	7~10
Whiteness	≥90	≥90

Sodium lauryl sulfate(SLS needle)

Molecular Formula:

RO-SO3NaR=C12-14 alkyl

Performance:

Is an anionic surfactant, referred to as SLS, easily soluble in water, with excellent emulsification, foaming, penetration, deconsolidation and dispersion properties, foam rich, delicate; Good compatibility; It has good resistance to hard water and fast biodegradation.

Application scenario:

Widely used in toothpaste foaming agent, cosmetic emulsifier: shampoo, bath agent and other washing cosmetic surfactants. It is also widely used in the pharmaceutical industry, and is widely used as emulsifier, detergent, dispersant, wetting agent and foaming agent in pharmaceutical manufacturing. In the construction industry as a concrete additive, blowing agent, air entraining agent, etc. It can also be used as levelling agent and mineral flotation agent in printing and dyeing industry.

Packaging:

SLS needle 25Kg composite bag (needle)

Test Item	Specification	
Appearance(25。C)	White or yellowish needle	
Odor	No strange odors	
Active matter(%)	≥92	≥94
Free oil (%)	≤3	≤3
Inorganic sulfate (%)	≤5	≤3
Water content(%)	≤4	≤4
Color(5%Am.aq,sol.)Klett	≤10	≤10
PH(1% sample solution)	8~11	8~11
Whiteness	≥90	≥90

Sodium Silicate

Molecular Formula:

Na2O·nSiO2

Performance:

Sodium silicate is commonly known as pyrophorine, and its aqueous solution is commonly known as water glass, which is a soluble inorganic silicate. It has softened water quality, necessary alkalinity and good resistance to resettling.

Application scenario:

Sodium silicate plays the role of helping wash, preventing corrosion and stabilizing foam in synthetic detergent. In the soap making industry, it can buffer the alkalinity of laundry soap, reduce the loss of laundry soap in water, and enhance the washing ability and prevent soap rackness; Can be used as papermaking filler; For the manufacture of silicone gel, silica gel; Used as a binder in the casting industry.

Packaging:

Bulk or customized.

Test Item	Specification
Appearance(25。C)	Colorless, slightly colored transparent, translucent, viscous liquid, no precipitation, no impurities White or yellowish needle
Modulus	2.2-2.5
Sodium oxide + Silica content (%)	≥34.0
Baume specific gravity (20 。C), Baume degree	≥39.0
Fe content (%)	≤0.05
Water insoluble matter (%)	≤0.40

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FATTY ALCOHOL ETHOXYLATED

Molecular Formula:

R-O-(CH2-CH2-O)n-H

Performance:

It has good emulsification and foaming ability and is an important non-ionic surfactant. It is nonionic in alkaline and neutral media and cationic in acidic media. It is stable to acid and alkali hard water, and can be mixed with ionic active agents in alkaline and neutral solutions. According to the number of ethylene oxide (EO) can be divided into AEO3, AEO7, AEO9 and other categories, each has different properties and applications

Application scenario:

Used for industrial cleaning agent, emulsifier, AES raw material production. It is widely used in civil detergent, chemical fiber oil agent, textile, leather industry, pesticide, electroplating, paper making and cosmetics industries.

Packaging:

Flexibag or 200drums.

Test Item	Specification
Appearance(25。C)	Colorless liquid
Odor	No strange odors
Hydroxy value of mgKOH/g	205±1
PEG%≤	0.7
Moisture≤	≤0.08
Color(5%Am.aq,sol.)Hazen	≤15
PH (1% aqueous solution of 25℃)	6.0-7.0

Complex Sodium Disilicate (CSDS)

Basic Specifications:

Item	Unit	Standard
Appearance		white, granule
Whiteness	%	≥ 85.00
Ca exchange	mg/g	≥ 400
capacity($CaCO_3$)		
Na_2O	%	≥ 20
Na_2O + SiO_2	%	≥ 50
PH	25℃ 1%solution	≤ 12.50
Bulk Density	g/ml	0.48-0.60
Water insoluble	%	≤ 1.50
Moisture	%	≤ 5

Chart 1: comparison of major detergent builders

	Sodium Tripolyphosphate (STPP)	4A Zeolite	Sodium Disilicate (CSDS)
Environment protection	With phosphorus	Phosphorus free	Phosphorus Free
Solubility	Soluble	Insoluble	Soluble
Pollution	Sewage	Mud	Sewage

Chart 2: phosphorus free builder function comparison

	4A Zeolite	Complex Sodium Disilicate(CSDS)
Ca exchange ability CaCo3 (mg/g)	285	≥400
Soften water	Lon exchange	Lon exchange
Treatment		Chemical reaction forming precipitates
Solubility	Insoluble	Full soluble
Pollution	More mud	Sewage

Applications of Sodium Disilicate:

Sodium Disilicate is widely used as STPP and 4A Zeolite Substitute in detergent powder making, such as concentrate detergent powder,

ordinary detergent powder, phosphorus-free washing powder, metal-washing powder. These detergent powders all can be used in hand washing or washing machine.

Advantage:

1. Completely friendly to environment
2. Excellent function and high calcium exchange ability (400min), better than STPP
3. Excellent PH buffering capacity
4. Competitive price to reduce much cost
5. Free flowing and low density: 0.48-0.6g/ml around. (requirement as customer)