



SHENGBANGFAN

圣邦帆

产品手册

Product Brochure



湖北圣邦帆国际贸易有限公司

HUBEI SHENGBANGFAN INTERNATIONAL TRADE CO.,LTD

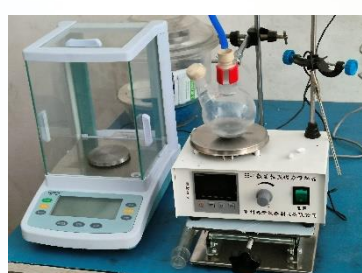


Hubei Shengbangfan International Trade Co.,Ltd. was established in 2022 as the extension of foreign trade department of the factory located in Zaoyang City, Hubei Province which was built in 1998. The factory covers an area of 100,000 m² & more than 100 employees and professional technicians with 12 unique patents. The company is mainly engaged in R&D & Sales of silicone oil liquid products which are widely used in different markets.

We keep following the international trade practices and pursuing the idea of providing "consultant & expert" service with "customer-centric" service policy. We constantly develop, innovate and treat leading technology as the core and we are dedicated to provide you with high-quality products. We are determined to establish a solid cooperative relationship with all kinds of customers from the international market and we promote our growing development and enterprising spirit of excellence and innovation. We are pleased to work with you to create brilliance with exquisite quality and perfect logistics!

工厂及生产车间设备

Plant and Workshop Equipment



Company Profile

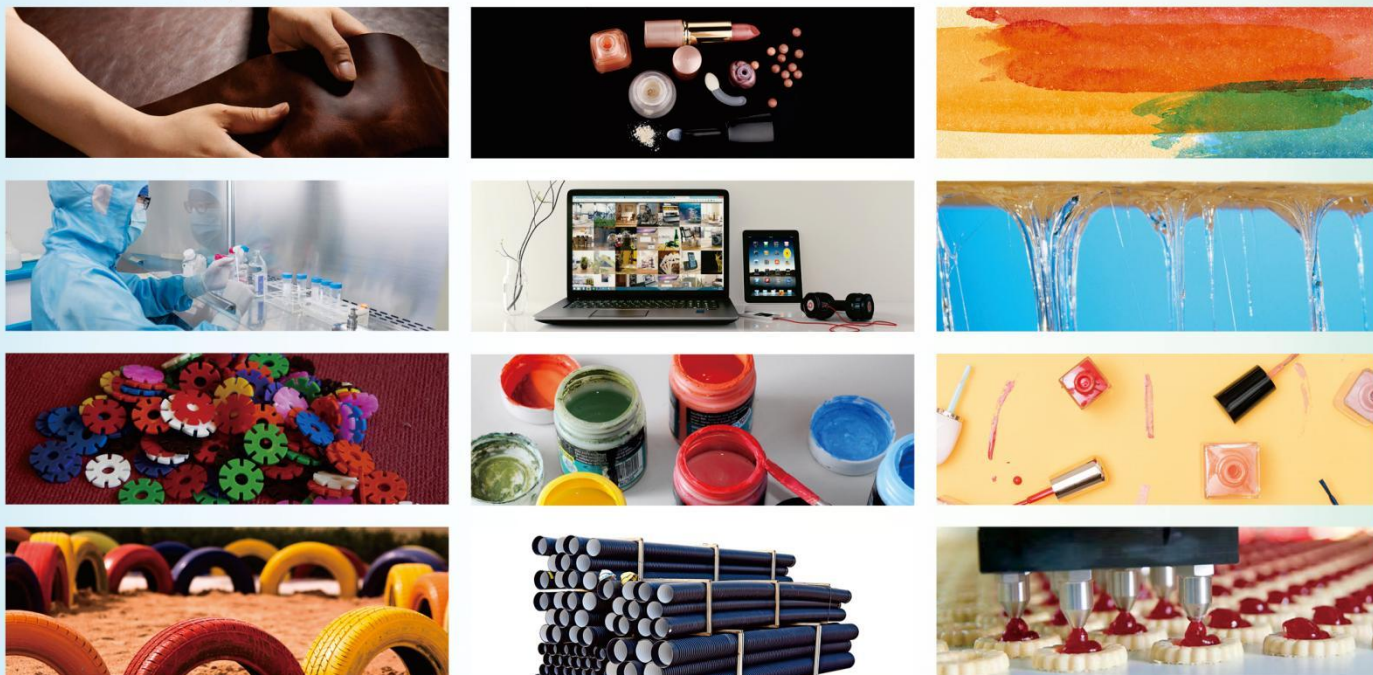
Hubei Shengbangfan International Trade Co.,Ltd. was established in May 2022, is a foreign trade company mainly engaged in the sale of chemical products. The factory was built in 1998, now covers an area of about 100,000 square meters, with more than 100 employees and professional technicians, and 12 patents. The company is mainly engaged in DMC (Dimethylcyclsiloxane), 201 Dimethyl silicone oil (polydimethylsiloxane), 107 silicone rubber (OH-Terminated polydimethylsiloxane), D5 (Decamethylcyclopentasiloxane), silicone capping agent MM/MDM and other kinds of silicone products, and is the leading supplier of silicone products in China.

With a complete marketing, logistics, after-sales and technical support network, which radiates silicone products at home and abroad with "Wuhan" as the center, we are able to provide quality solutions and services to the global sealing material, rubber and plastic, textile, paint and coating, and daily chemical fields, creating maximum value for our customers.

We keep following the international trade practice, pursue the "consultant, expert" service, and "customer-centric" service policy, constantly develop and innovate, technology as the core, quality for survival, reputation for development, dedicated to provide you with High quality products. We are determined to establish a solid supply relationship in the international market, provide customers with high quality services, and promote our own continuous growth and development with the enterprising spirit of excellence and innovation. We are willing to work hand in hand with you to create brilliance with exquisite quality, perfect logistics and good service level !

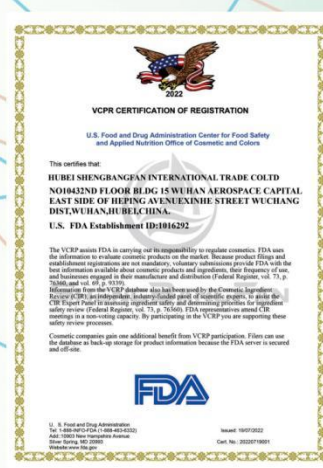
产品应用场景

Product application scenarios



荣誉资质

Honor & Qualification



201 Dimethyl silicone oil

Chemical name : Dimethicone/silicone oil/silicone fluid/polydimethylsiloxane/simethicone

CAS No. : 63148-62-9/9016-00-6/9006-65-9

HS Code: 3910000000

EINECE : 618-493-1

Appearance : colorless transparent liquid

Technical parameters

Index Item	Viscosity (25°C) mpa.s	Flash point (°C,≥)	Density (25°C)g/cm ³	Volatile matter ≤ (150°C, 3h)%	Refractive index 25°C
201-10	10	160	0.930-0.940	3	1.390~1.401
201-50cs	50	270	0.955-0.965	1.5	1.400~1.410
201-100cs	100	310	0.960-0.970	1	1.4020~1.4040
201-200cs	200	310	0.962-0.972	1	
201-350cs	350	315	0.962-0.972	1	
201-500cs	500	315	0.962-0.972	1	
201-1000cs	1000	320	0.965-0.975	1	1.4025~1.4045
201-12500cs	12500	330	0.968-0.978	1	
201-60000cs	60000	330	0.970-0.980	1	

Performance and application

It is widely used in cosmetics such as skin creams, hand creams, skin cleansers, sunscreens, shaving creams, deodorants, baths and hair conditioners. It can also be used as polishing agent and defoamer. It has the ability to dissolve many kinds of vitamins, hormones, antiseptics and anti-inflammatory agents, and it has good solubility with various components of cosmetics, and it can form a thin layer on the surface of the skin and has hydrophobicity, which can keep vitamins and drugs on the surface of the skin for a long time and have a stable nutritional effect. It can also make hair soft and smooth, improve combing and increase luster. It is also widely used as a release agent for a variety of materials such as plastic and rubber, and has excellent high and low temperature resistance, light transmission, electrical properties, water repellency, moisture resistance and chemical stability.

Application Industry

1. Daily chemical: skin creams, baths, shampoo and other cosmetic formulations.
2. Rubber & Plastic: release agent, brightener
3. Machinery & Electronics: lubricating oil, damping oil, shock-proof oil
4. Textile & Leather: softener, water repellent, hand modifier
5. Aerospace: surface protection coating
6. Human body filling: breast filling;
7. Nano components: micro channel, micro mixer, micro pump, micro valve, etc;

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. This product should be stored in a dry and ventilated place at room temperature under airtight, avoid contact with acid and alkali substances.

Store and transport as non-dangerous goods.

107 Silicone Rubber

Chemical name : OH Terminated Polydimethylsiloxane

CAS No. : 70131-67-8

HS Code: 3910000000

EINECE : 615-070-3

Molecular Formula: $\text{HO-Si}(\text{CH}_3)_2\text{O}[\text{Si}(\text{CH}_3)_2\text{O}]_n\text{Si}(\text{CH}_3)_2\text{-OH}$

Apperance: colorless transparent viscous liquid

Technical parameters

Item	Index
Appearance	Colorless transparent viscous liquid
Viscosity (25°C)	750~80,000 (based on customer request)
Hydroxyl content %	0.5~3(based on the viscosity)
Volatile matter (%):	< 2
Hardness (shore A)	> 18

1At room temperature, it can react with crosslinking agents in the presence of catalysts, to form a reaction product, which has many excellent properties such as keeping good elasticity from -50℃ to 250℃, excellent electrical property chemical stability and good resistance to water, odor, weather. Therefore, it can be widely used in many industries, such as electronics, semiconductors, autos, mechanicals, fabric, plastic, printing, construction, etc.

Application Industry

1. Auto industry: vehicle light sealant, automobile filling and sealing adhesive
2. Construction industry: silicone glass sealants
3. Household appliances: electronic filling and sealing adhesive
4. Photovoltaic: photovoltaic adhesive
5. Textile: leather lubricant
6. Mould: imitation bronze ware mould and artificial leather mould

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. Storage at ventilate and dry place and prevention from water, heat and fire. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp,water, acid and alkali.

DMC(Dimethylcyclsiloxane)**Chemical name** : Dimethylcyclsiloxane**CAS No.** : 69430-24-6**HS Code**: 3910000000**EINECE** : 615-070-3**Molecular Formula**: $[(CH_3)_2SiO]_n$, $n=3\sim6$ **Apperance** : colorless transparent liquid**Technical parameters**

Item	Index
Appearance	Colorless, transparent, non-mechanical impurities of the liquid
Chroma (Hazen unit) ≤	10 (Quality products, first-class goods)
(D3+D4+D5) % ≥	97
Density: (25℃, g/cm ³)	0.956~0.958
Refractive index (25℃)	1.3910~1.3930
Viscosity (25℃, mm ² /s)	2.10~2.50
MM %	≤0.17

Performance and application

It is colorless, inflammable, and cannot dissolve in water, but dissolve in organic solvents such as benzene, etc. Viscosity is about 2.1 ~ 2.5 mm²/s, freezing temperature 0 °C ~ 5 °C. It can be used to synthesize silicone polymer by acid or alkali catalysis to manufacture silicone oil, silicone rubber, etc.

Application Industry

1. Silicone: raw materials for raw rubber, OH polymer, silicone oil and other silicone products;
2. Textile industry: used as textile auxiliaries.

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. Store in a cool, dry, well-ventilated area and keep away from oxidant, acid and alkali. The storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Handling according to hazardous substances. Be careful when loading and unloading to avoid damages of the package.

Decamethylcyclopentasiloxane (D5)

Chemical name : Cyclopentasiloxane/Decamethylcyclopentasiloxane/D5

CAS No. : 541-02-6

HS Code: 2931900001

EINECE : 208-764-9

Molecular Formula: C₁₀H₃₀O₅Si₅

Appearance : colorless transparent liquid

Technical parameters

Item	Index
Appearance	Colorless and transparent
Chroma (Cobalt platinum color number) ≤	10
Refractive index (25℃)	1.3960~1.3980
D5 Mass fraction ≥	99.0

Performance and application

It is a volatile polydimethylcyclsiloxane, mainly composed of decamethylcyclopentasiloxane. It is colorless and transparent liquid, with low flow point and fast reaction speed. It has good compatibility with most alcohols and other cosmetic solvents and is widely used in cosmetics and human body care products, such as skin care, sunscreen, makeup, hair conditioning products. It can be directly used as a carrier, the main raw materials, can also be used as additives; It can also be used in water - based systems by emulsification.

Application Industry

1. Daily chemicals: skin care lotion, antiperspirant, shampoo
2. Silicone oil

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. Store in a cool, dry, well-ventilated area and keep away from oxidant, acid and alkali. The storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Handling according to hazardous substances. Be careful when loading and unloading to avoid damages of the package.

Hexamethyldisiloxane (MM)

Chemical name : hexamethyl disiloxane; hexamethyloxy disilane

CAS No.: 107-46-0

HS Code: 2931900090

EINECS: 203-492-7

Molecular Formula: C₆H₁₈OSi₂

Appearance : colorless transparent liquid

Technical parameters

Item	Index
Appearance	Colorless transparent liquid
Density: (25℃, g/cm ³)	0.764
Refractive index (20℃)	1.3765~1.3785
Melting point (℃)	-59
Flashing point (℃)	-1.1
The boiling point (℃)	99.5~100.5
Content (% , ≥)	99.0

Application Industry

1. Used as capping agent, cleaning agent, release agent, also used as silane raw material.
2. Used for silicone rubber, medicine, gas chromatographic fixing liquid, analytical reagent, hydrophobic agent, etc.

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. This product is stable at low temperature, so it is recommended not to store it in high temperature Do not touch open fire, water and moisture during storage. Keep ventilated, dry and cool to prevent sunlight.

Octamethyltrisiloxane (MDM)

Chemical name : Octamethyltrisiloxane / POLY(DIMETHYLSILOXANE)

CAS NO.: 107-51-7

HS Code: 2931900090

Molecular formula: C₈H₂₄O₂Si₃

EINECS: 203-497-4

Appearance: colorless transparent liquid

Physical and chemical features :

Density (25℃, g/cm³): 0.82

Refractive index (20℃) : 1.384

Melting point (℃) : -82

Flash point (℃): 29

Boiling point (℃): 153

Viscosity: 1CST

Content (% , ≥): 99.0

Application Industry

It is an ultra-low molecular polysiloxane mixture, which is used as raw material for the production of cosmetics, blocking agent for methyl silicone oil and methyl silicone rubber.

Packaging and storage

Packed in plastic / iron drums, net weight 180 kg/drum, or International Bulk Container, net weight 900 kg/IBC. This product is stable at room-temperature, so it is recommended not to store it in high temperature. Do not touch open fire, water and moisture during storage. Keep ventilated, dry and cool to prevent sunlight.

Methyl Phenyl Silicone Oil

Chemical name: Methyl Phenyl Silicone Oil / Phenyl Silicone Oil / Polyphenylmethyldimethylsiloxane

CAS No.: 63148-58-3

HS Code: 3910000000

Molecular Formula: C₁₁H₁₆OSi

EINECS: 613-153-9

Appearance: Colorless oily liquid

Technical parameters

Item	Index
Appearance	Colorless or nearly colorless oily liquid, non-mechanical impurities of the liquid
Viscosity, 25℃, m ² /s	15~25
PH (25℃)	6.5~7.5
Refractive index (25℃)	1.4550~1.4850

Performance and application

It is colorless or nearly colorless oily liquid. It could be used to produce ointments, creams and emulsion and has a high compatibility with them. Users could directly add oil phases, and mix with the oil phase to average and heats the mixture at 70 ~ 80℃ to lead to further emulsification and the next ordinary processing steps.

Application Industry

1. Hair Caring Products: Hair conditioners, pomades
2. Makeups: Lipsticks, nail polish, sunscreen creams and other makeups

Packaging and storage

Packed in plastic drums, net weight 25L/drum or 200L/drum, or other customized drums or packages. Please storage at the temperature between 5~35℃. Storage at ventilate and dry place and prevention from water, heat and fire. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali.

1,4-diacetoxy-2-oxabutane

Other name: 2-((Acetyloxy)methoxy)ethyl acetate;[2-(acetyloxy)ethoxy]methyl acetate;2-Oxo-1,4-Butanediol Diacetate;2-[(Acetyloxy)Methoxy]Ethyl Acetate;

CAS No: 59278-00-1

HS Code: 2915390090

EINECS: 261-686-7

Molecular formula: C₇H₁₂O₅

Molecular mass: 176.1672

InChI: InChI=1/C7H12O5/c1-6(8)11-4-3-10-5-12-7(2)9/h3-5H2,1-2H3

Density: 1.119g/cm³

Boiling point: 225.2°C at 760 mmHg

Flash point: 90.9°C

Technical parameters

Test items	Standard
Characteristics	Clear and colorless to pale brown colored liquid
Identification	Infrared radiation identification / Chromatographic identification
Miscibility	Miscible with methanol
Water (KF)	≤0.5%
Related substances (GC)	Max single impurity ≤0.5% Total impurities ≤2.0%
Purity (GC)	≥98.0%
Test criterion	Enterprise standard

Application Industry

This product is the intermediate of antiviral drug acyclovir

Packaging and storage

200kg plastic drum. Store in a cool, dry and ventilated fire-proof area away from substances that cannot coexist. Avoid direct sunlight and humidity. Store away from heat, flames, sparks and extreme temperatures.

Silicone Resin

Chemical name: Silicone Resin/Methylpolysiloxane Resin

HS Code: 3910000000

Appearance: Colorless or lightly yellow oily liquid

Technical parameters

Item	Index
Appearance	Colorless or lightly yellow oily liquid, non-mechanical impurities of the liquid
PH (25℃)	6~7
Solid content (150℃,2h),%	50±2
Gel time(200℃,min)	10~120

Performance and application

It is colorless or lightly yellow oily liquid. It has excellent heating resistance, electrical isolation, humid resistance, water resistance and many other excellent properties. It is crispy and hard, and it has high solidification with fewer volatile matters.

Application Industry

- 1 New Energy Vehicle: Adhesive to New Energy Vehicle Battery Insulation Film
- 2.Construction Material: As polishing agent for marbles and bricks

Packaging and storage

Packed in 50kg plastic /200kg iron drums, or other required packages. Storage at ventilate and dry place and prevention from water, heat and fire under 35℃. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali. The expiry period is 6 months (if the analysis result shows it fits the specification it could be used as well even though it is expired).

Silicone Pressure Adhesive

Chemical name: Silicone Pressure Adhesive

HS Code: 3910000000

Appearance: Colorless or lightly yellow oily liquid

Technical parameters

Item	Index
Appearance	Colorless or lightly yellow oily liquid, non-mechanical impurities of the liquid
Diluent	Toluene
Viscosity (25℃, cp)	≥20000
Solid Content(150℃, 2h, %)	60±2
Density(25)	0.98~1.02

Performance and application

It is colorless or lightly yellow oily liquid. It is the dispersion of polydimethylsiloxane and resins in toluene. It is high-viscosity liquid and has excellent adhesion. It has few smokes and it is not non-poisoned. It has good stability, heating resistance and could avoid carbon precipitation. It also has excellent weather resistance, humid resistance and electrical isolation.

Application Industry

1. It could be used in the manufacturing of fire-resistance mica types and high-temperature pressure sensitive adhesive tapes.
2. It could be used in masking tapes or gummed tapes.
3. It could be used directly as the adhesive for metals and non-metals.

Packaging and storage

Packed in 200kg iron drums or other required packages. Storage at ventilate and dry place and prevention from water, heat and fire. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali. The expiry period is 6 months (if the analysis result shows it fits the specification it could be used as well even though it is expired).

PSA Series Silicone Pressure Adhesive

Chemical name: PSA Series Silicone Pressure Adhesive

HS Code: 3910000000

Appearance: Colorless oily liquid

Technical parameters

Items	PSA9162	PSA9165	PSA9168	PSA9169
Appearance	Colorless oily liquid			
PH	7			
Solid Content (150℃,2h,%)	52~55	56-58	59-61	58-60
Viscosity (25℃,cp)	50000~110000	30000~90000	30000~120000	
Ratio (25℃)	0.98			

Performance and application

It is colorless oily liquid. PSA Series Silicone Pressure Adhesive is made by using polysiloxane raw adhesive and resin to be the basis and to add toluene solvent as auxiliaries. It is a widely-used heating-resistance pressure sensitive adhesive. It could be used in a wide range of temperatures and could stick to many kinds of materials which have low surface energies.

Application Industry

1. It could be used as pressure sensitive adhesive to be painted on coating cloths through traditional high-temperature painting device to coat in on PET, aluminum and other foundation materials to make further pressure sensitive adhesive for unique purposes.
2. It could be used in circuit board manufacturing processes.

Packaging and storage

Packed in 200kg iron drums or other required packages. Storage at ventilate and dry place and prevention from water, heat and fire under 0 ~ 35℃. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali. The expiry period is 6 months (if the analysis result shows it fits the specification it could be used as well even though it is expired).

Silicone Oil Antifoamer

Chemical name: Silicone Oil Antifoamer/Silicone Oil Defoamer

HS Code: 3910000000

Appearance: depending on the type of antifoam

Technical parameters

Objects	Z-25A	SA30	T20A-2	T10A	D20
Appearance	emulsion white or light yellow liquid	emulsion white viscous liquid	emulsion white flowing liquid	light yellow or yellow oily liquid	emulsion white or light yellow liquid
PH	6.0~9.0	5.0~8.0	6.0~8.0	5.0~7.0	5.0~9.0
Viscosity (25℃,cp)	80~1000mPa • s	/	500~1500 mPa • s	50~800mPa • s	80~1000mPa • s
Dispersion	Could be Dispersed in Water				

Performance and application

The appearance of silicone oil antifoamer depends on its type. Its main components are polydimethylsiloxane, polyether modified silicone, emulsifier and water.

Application Industry

1. It could be used to defoam the foam in waste water (Z-25A, SA30, T20A-2).
2. It could be used in desulphurization of power stations, industrial washing and low-temperature coating (SA30).
3. It could be used in PVC construction material paints or other antifoaming system which cannot apply organic silicon (T-10A).
4. It could be used in water-based abrasive paste (T20A-2).
5. It could be used to antifoam high-viscosity waste water and evaporation system (Z-25A).
6. It could be used to food processing (D20).

Packaging and storage

Packed in 25kg, 50kg or 200kg plastic drums or other required packages. Storage at ventilate and dry place and prevention from water, heat and fire. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali. The expiry period is 6 months (if the analysis result shows it fits the specification it could be used as well even though it is expired).

Hydroxyl Terminated Silicone Oil

Chemical name: Hydroxyl Terminated Silicone Oil

CAS No.: 70131-67-8

HS Code: 3910000000

Molecular Formula: $\text{HO}[(\text{CH}_3)_2\text{SiO}]_n\text{H}$

EINECS: 213-915-7

Appearance: Colorless oily liquid

Technical parameters

Item	Index
Appearance	Colorless or nearly colorless oily liquid, non-mechanical impurities of the liquid
Viscosity, 25°C, m²/s	20~32
PH (25°C)	6.5~7.5
Refractive index (25°C)	1.4000~1.4100
Hydroxyl content%	8.0~11.0
Volatile matter%	< 13

Performance and application

It is colorless or nearly colorless oily liquid. It dissolves in carbon tetrachloride, benzene, chloroform, ether, toluene and other organic solvents & is insoluble in water and ethanol. Low-viscosity hydroxyl silicone oil has solubility in water. It can be used as treatment agent for fabric & paper. It is widely used as structure control agent in silicone rubber processing. It can control the structural effect between rubber mix and white carbon black, improve processing performance of silicone rubber, and extend storage period of rubber compounds. Dimethyl hydroxyl silicone oil can also be used as intermediate for synthesis of various polysiloxanes.

Application Industry

1. Rubber: structure controlling agent for silicone rubbers
2. Textile industry: used as textile finish
3. Paper industry: used in anti-sticking process of manufacturing paper

Packaging and storage

Packed in plastic / iron drums, net weight 200kg/drum, or International Bulk Container, net weight 1000kg/IBC. Storage at ventilate and dry place and prevention from water, heat and fire. Keep away from alkalis and acids substances and lead. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali.



SHENGBANGFAN

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