HOSHINE

HOSHINE SILICON PRODUCT CATALOGUE

合盛硅业产品目录 工业硅 有机硅



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Methyl Vinyl Silicone Rubber (Silicone Gum)

Product Name: Methyl Vinyl Silicone Rubber (Silicone Gum)

Molecular Formula: RMe₂SiO(Me₂SiO)_n(MeViSiO)_mSiMe₂R(R: Me, Vi)

CAS No.: 67762-94-1

Product Standard: T/ZZB 0232-2017

Physical and Chemical Properties: Excellent Thermal Stability

Relative Density (water=1): 0.97

Appearance: Colorless transparent without mechanical impurity

Technological Index:

Item No.	Molecule Weight/10 ⁴	Vinyl Content/%	Volatile Compounds/%
110-0	45~85	0.03~0.06	
110-1	45~85	0.07~0.12	
110-2	45~85	0.13~0.18	≤1.0
110-3	45~85	0.19~0.24	
110-4	45~85	0.25~0.50	
112-0	45~85	0.03~0.06	
112-1	45~85	0.07~0.12	-10
112-2	45~85	0.13~0.18	≤ 1.0
112-3	45~85	0.19~0.24	
112-4	45~85	0.25~0.50	
112-5	45~85	0.60~1.40	
112-6	45~85	1.50~2.40	≤ 1.5
112-7	45~85	2.50~3.40	< 1.5
112-8	45~85	3.50~4.40	
112-9	45~85	4.50~5.00	

Note: (1) 110 is for vinyl terminated gum and 112 is for methyl terminated gum.

(2) Other specifications will be followed according to contract.

Properties and Uses

It can not dissolve in water, but dissolve in organic solvents such as methyl benzene, etc. It has excellent properties such as small compression deformation, resistance to saturated vapor pressure. It can be used in manufacturing sealing material resisting to high and low temperature, waterproof, moisture-resistant and insulation material in aviation, mechanical, chemical industry, etc. Due to its physiological inertia, it can be used to manufacture artificial organ and medical rubber pipe in medical fileds, as well as raw material for high temperature silicone rubber.

Package, Storage and Handling

Net weight 25kg/carton (plastic-lined paper box). Store in a cool, dry, well-ventilated area away from strong oxidizing agents. Avoid to contact 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.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.



Room Temperature Vulcanized Silicone Rubber(OH Polymer)

Product Name:Room Temperature Vulcanized Silicone Rubber

(Methyl RTV 107/OH Polymer)

Molecular Formula:HO[(CH₃)₂SiO]_nH

CAS No.:70131-67-8

Product Standard:GB/T 27570-2011

Physical and Chemical Properties: Resistance to ozone, ultraviolet light

and extreme temperature

Relative Density(water=1): 0.97

Appearance: Colorless transparent sticky liquid

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Properties and Uses

At 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 -60°C to 200°C, 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.

Package, Storage and Handling

Steel drum, net weight 190kg/drum. International Bulk Container, net weight 950kg/IBC or ISO TANK. 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.

Technological Index:

Item	Viscosity (25°C)/(mPa·s)	Turbidity/NTU ≤	Volatile Compounds (150°C, 3h) /% \leqslant	Vulcanizing Time in surface/h ≤
RTV-107-T008	750±75	7.0	2.0	2.0
RTV-107-T009	850±85	7.0	2.0	2.0
RTV-107-T01	1000±100	7.0	2.0	2.0
RTV-107-T02	1500±150	7.0	2.0	2.0
RTV-107-T02	2000±200	7.0	2.0	2.0
RTV-107-T05	5000±500	7.0	2.0	2.0
RTV-107-T1	10000±1000	7.0	2.0	2.0
RTV-107-2	20000±2000	7.0	1.0	1.0
RTV-107-5	50000±4000	7.0	1.0	1.0
RTV-107-8	80000±6000	7.0	1.0	1.0

 $Note: Other \ specifications \ according \ to \ contract. \ It \ can \ be \ customized \ according \ to \ the \ requirements.$



Silicone Rubber

Product Name: Silicone Rubber

CAS No.:63394-02-5

Product Standard: Q/HSGY 005-2021

Appearance: Milky White/ Translucent

Technological Index:

Item	Index	
Hardness /Shore A	20~90	
Tensile Strength /Mpa ≥	3	
Tear Strength /(kN/m) ≥	10	
Elongation /% ≥	100	
Tensile Set /% ≤	10	
Rebound /%	35~80	

Note: Other specifications according to contract. It can be customized according to the requirements.

Properties and Uses

Mainly used for water-proof, moisture proof and sealing elements in the area of electronics, high temperature electrical wire and cable, and aviation and so on. It can be used to manufacture various kinds of silicone products, such as sealing components, sealing rings, keypads, molds, etc.

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Package, Storage and Handling

Plastic-lined paper box, net weight 20kg/-carton.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.



Liquid Silicone Rubber

Product Name: Liquid Silicone Rubber

CAS No.:112926-00-8

Product Standard: Q/HSGY 008-2020

Appearance: Milky White with Slightly Transparent/Light Blue with Slightly

Transparent/Colorless Transparent

Technological Index:

Item	Viscosity (25°C, 10.0 1/s) /(Pa·s)	Density /(g/cm³) ±0.02	Hardness (120°C×5min) /(shore A)±3	Tensile Strength /Mpa ≽	Elongation /% ≽	Tear Streng /(kN/m) ≥
HSL-1120A/B	160	1.10	20	6	750	12
HSL-1125A/B	170	1.10	25	6	600	12
HSL-1130A/B	200	1.10	30	6	600	25
HSL-1140A/B	200	1.12	40	7	450	15
HSL-1145A/B	230	1.12	45	7	450	20
HSL-1150A/B	230	1.13	50	7	350	18
HSL-1155A/B	250	1.13	55	8	350	25
HSL-1160A/B	280	1.13	60	8	350	30
HSL-1165A/B	350	1.13	65	8	250	25
HSL-2140A/B	120	1.10	40	6	300	20
HSL-4520A/B	12	1.11	37	3.5	250	8

Note: (1) Other specifications will be followed according to contract.

(2) Test condition: properties obtained using set A and set B according to the proportion of 1:1, then well-mixed, moulded 5 minutes at 175°C.

Properties and Uses

It has good fluidity, fast vulcanization, injection molding with good process ability and mechanical property. Suitable for coating materials, coating grade high transparency silicone rubber products such as baby products, kitchenware and swim-ming wears.

Package, Storage and Handling

Component A: White gallon steel drum, net weight 200KG or 20L blue plastic bucket with PE plastic bag inside, net weight 20KG Component B: Blue gallon steel drum, net weight 200KG or 20L white plastic bucket with PE plastic bag inside, net weight 20KG Before using, Please read the Instruction in TDS, SDS and directions on the package. Store the Component A and B separately. From the date of production, it can be stored for six months; suggesting that please use in three months.



Acetic Silicone Sealant

Product Name: Acetic Silicone Sealant

Product Standard: GB/T 14683-2017
Appearance: Fine, uniform paste

Properties and Uses

It is single-component, acetic silicone sealant. It is used as good sealing material for glass, doors and windows due to its excellent flexibility, water proofing resistance to temperature and weather ability.

It is used for installation and sealing of normal glass, windows and display stand and sealing, adhesion and repair of other construction materials including aluminum material, marble, plastic and wooden.

Package, Storage and Handling

Steel drum, net weight 190kg/drum. It is non-hazardous goods. It shall be stored below 27°C in a cool and dry place. It has a shelf life of 9 months. It is recommended to use within 6 months after purchase.

Technological Index:

Itam

item				illuex							
Model		HS-3100	HS-3115	HS-3130	HS-3140	HS-3130B	HS-3115B	HS-3100B	HS-3130W	HS-3100W	HS-3115W
Flow, Sag or Slump:	A Vertical Deposited (mm) ≤	1	2	3	0	3	2	1	3	1	2
riow, sag or sturip.	B Level Deposited (mm) ≤	No Deformation	No Deformation	No Deformation	No Deformatio	n No Deformation	No Deformation				
Extrusion ability (ml	/min) ≥	150	180	200	300	200	180	150	200	150	180
Tack-free time (h:25	°C,50% RH) ≤	1	1	1	0.3	1	1	1	1	1	1
	A 23°C	>0.4	≤0.4	≤0.4	>0.6	≤0.4	≤0.4	>0.4	≤0.4	>0.4	≤0.4
Tensile Modulus, MPa:	'a: B-20°C	>0.6	≤0.6	≤0.6	>0.6	≤0.6	≤0.6	≤0.6	>0.6	≤0.6	≤0.6
Adhesion at fixed str	retch	Intact	Intact	Intact	Intact	Intact	Intact	Intact	Intact	Intact	Intact

In day



Neutral Silicone Sealant

Product Name: Neutral Silicone Sealant
Product Standard: GB/T 14683-2017

Appearance: Fine, uniform paste

Properties and Uses

It is a single-component, neutral-cure silicone sealant, featuring excellent resistance to weather and adhesion property. It is not corrosive to most construction materials except copper. It is good water-proofing material for doors and windows due to its excellent adhesion.

It is suitable for sealing application of doors and window and sealing, adhesion and repair of metal, tiles, and marble.

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Package, Storage and Handling

Steel drum, net weight 190kg/drum. It is non-hazardous goods. It shall be stored below 27° C in a cool and dry place. It has a shelf life of 9 months. It is recommended to use within 6 months after purchase.

Technological Index:

Item					Index					
Model		HS-6100	HS-6115	HS-6130	HS-6100W	HS-6115W	HS-6130W	HS-6100B	HS-6115B	HS-6130B
Flow, Sag or Slump:	A Vertical Deposited (mm) <	≤ 1	2	2	1	2	2	1	2	2
riow, sag or sturrip.	B Level Deposited (mm) ≤	No Deformation	No Deformatio	n No Deformation	on No Deformation	No Deformation				
Extrusion ability (ml,	/min) ≥	150	180	180	150	180	180	150	180	180
Tack-free time (h:25	°C,50% RH) ≤	2	2	2	2	2	2	2	2	2
Tourille Mandalous IMP	A 23°C	>0.4	≤0.4	≤0.4	>0.4	≤0.4	≤0.4	>0.4	≤0.4	≤0.4
Tensile Modulus, MPa	'a: B-20°C	>0.6	≤0.6	≤0.6	>0.6	≤0.6	≤0.6	>0.6	≤0.6	≤0.6
Adhesion at fixed str	retch	Intact	Intact	Intact	Intact	Intact	Intact	Intact	Intact	Intact



Dimethylcyclosiloxane (DMC)

Product Name: Dimethylcyclosiloxane (DMC)

Molecular Formula:[(CH₃)₂SiO]_n, n=3~7

CAS No.:69430-24-6

Product Standard:GB/T 20436-2006

Physical and Chemical Properties: Flash Point: 55°C

Relative Density (water=1): 0.956

Appearance: Colorless transparent oily liquid

Technological Index:

Item	Index
Chroma/ Platinum-cobalt scale/ Hazen unit ≤	10
Refractive index nD ²⁰	1.3960~1.3970
Content of Dimethylsiloxane cyclics mixture/% ≥	99.80
Content of Hexamethyldisiloxane/% ≤	0.005
Acidity (According to HCl) /% ≤	0.001

Properties and Uses

It is colorless, inflammable, and can not dissolve in water, but dissolve in organic solvents such as benzene, etc. It can be used to synthesize organic silicon polymer by acid or alkali catalysis to manufacture silicone oil, silicone rubber, etc.

Package, Storage and Handling

Steel drum/Plastic drum, net weight 190kg/drum or International Bulk Container, not weight 950kg/IBC or ISO TANK. 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.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, bases.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.

Hazardous Polymerization: May occur.



Hydroxyl Terminated Polydimethylsiloxane Linear

Product name: Hydroxyl terminated polydimethylsiloxane linear

CAS No.: /

Product Standard: T/FSI 023-2019 Physical and Chemical Properties:

Melting Point / Freezing Point: -44°C Relative Density: 0.960~0.975 (water=1)

Water solubility (g/l): no reaction

Appearance: Colorless transparent liquid with slightly cloudy

Properties and Uses:

It can be self-condensed to generate hydroxyl-terminated linear silicone oil with different viscosity and molecular weight; it can be copolymerized with functional capping agent to make non-reactive silicone fluid.

Package, Storage and Handling:

Hydroxyl terminated polydimethylsiloxane linear is packed in clean, dry and well-sealed steel drums or plastic IBCs, and water infiltration is strictly prohibited. 950kg/IBC or 190kg/Drum. Store it in a cool, dry and ventilated place. Prevention from direct sunlight, isolation from fire sources and keep away from heat sources.

Technological Index:

Item			Index		
		First Grade		Qualified Grade	
Turbidity /NTU	\leq		3		
150°C Non-Volatiles /%	\geqslant	99.0		97.0	
Acid Value (in HCL terms)/%	\leq		0.001		
Kinematic viscosity (25°C) / (mm2/s)	\leq		50.0-120.0)	

Remarks: In addition to the above, if customers have special requirements, it will be executed according to the contract.



Hexamethylcyclotrisiloxane (D₃)

Product Name: Hexamethylcyclotrisiloxane

Molecular Formula:[(CH₃)₂SiO]₃

Molecular Weight:222.47

CAS No.:541-05-9

UN No.:1325

Product Standard: T/FSI 009-2017

Physical and Chemical Properties: Melting Point: 64°C

Boiling Point:134°C

Relative Density (water=1):1.12

Appearance: White crystalline lens.

Structural Formula: $> s_i$ $> s_i$ $> s_i$ $> s_i$

Technological Index:

Item	Index	
Content of Hexamethylcyclotrisiloxane/% ≥	98.00	
Content of Chloridion/(mg/Kg) ≤	30,00	

Properties and Uses

White crystalline lens, the odor likes grass. Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause central nervous system depression. Moisture sensitive. It is used for production of general silicone polymers and specific organic silicon compounds, such as surface treatment agent, coupling agent, crosslinking agent and so on.

Package, Storage and Handling

Blue Drum net weight 180kg/Drum, or Steel Drum net weight 125kg/drum. The package should seal up completely, keep in cold, dryand ventilating place. Be careful when loading and unloading to avoid damages of the package. During transport-ing, protect against damp, water, acid and alkali.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.



Octamethyl cyclotetrasiloxane (D₄)

 ${\bf Product\ Name:} Octamethylcyclotetrasiloxane\ (D_{_{\! 4}})$

Molecular Formula:(CH₃)₈Si₄O₄

CAS No.:556-67-2

Product Standard:GB/T 20435-2006

Physical and Chemical Properties: Freezing Point: 17~18°C

Boiling Point: 175-176°C

Flash Point: 60°C

Relative Density (water=1): 0.956

Appearance: Colorless transparent oily liquid

Technological Index:

Item	Index	
Chroma/Platinum-cobalt scale/Hazen unit ≤	10	
Refractive index nD ²⁰	1.3960~1.3970	
Content of Octamethyl cyclotetrasiloxane/% ≥	99.0	

Properties and Uses

It is colorless, inflammable, and can not dissolve in water, but dissolve in organic solvents such as benzene, etc. It can be used to synthesize organic silicon polymer by acid or alkali catalysis to manufacture silicone oil, silicone rubber, etc. It can also be used directly as treating agent for rubber stuffing and the raw material for cosmetic.

Package, Storage and Handling

Steel drum/Plastic drum, net weight 190kg/drum or International Bulk Container, net weight 950kg/IBC, or ISOTANK. 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. Becareful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, bases.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.

Hazardous Polymerization: May occur.



Decamethylcyclopentasiloxane (D₅)

Product Name: Decamethylcyclopentasiloxane

Molecular Formula: C10H30O5Si5

Molecular Weight: 370.77

CAS No.:541-02-6

Product Standard: T/FSI 010-2017

Physical and Chemical Properties: Boiling Point: 90°C 10mm Hg

Flash Point: 73°C

Relative Density (water=1): 0.958

Appearance: Colorless transparent liquid without visible impurity

Structural Formula:



Technological Index:

Item	Index
Chroma/ Platinum-cobalt scale/ Hazen unit ≤	10
Viscosity (25°C) /cst	3.8~4.2
Non-volatile matter /% ≤	0.10
Content of Octamethylcyclotetrasiloxane/% ≤	0.2
Content of Decamethylcyclopentasiloxane/% ≥	98.5
Content of other methylcyclosiloxane/% \leqslant	1.5

Note: The content of Octamethylcyclotetrasiloxane can be adjusted according to the customer demand.

Properties and Uses

It is widely used in cosmetics and body care products, Such as skin care, sunscreen, makeup, hair conditioning products, good compatibility with most of the alcohol and other cosmetic solvents. Be directly used as the carrier, the main raw material, also can be used as an additive; and be used in aqueous systems by the method of emulsification.

Package, Storage and Handling

Steel drum, net weight 190kg/drum,or International Bulk Container, net weight 950kg/BC or ISO TANK.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.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, bases.

Hazardous Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by thermal decomposition or combustion.

Hazardous Polymerization: May occur.



Methyltrichlorosilane (MTCS/M₁)

Product Name: Methyltrichlorosilane (MTCS)

Molecular Formula: CH, SiCl,

Molecular Weight:149.5

CAS No.:75-79-6

UN No.:1250

Product Standard:GB/T 20434-2006

Physical and Chemical Properties:

Flash Point: -9°C (Closed cup)
Melting Point: -90°C

Melting Point: -90°C

Boiling Point: 66°C

Auto-ignition Temperature: 490°C

Relative Density (water=1): 1.28 Relative Vapour density (air=1): 5.2 Vapour Pressure:17.9kPa (at 20°C)

PH: Reacts with water to produce hydrogen chloride.

Explosion Limits Lower[%(V/V)]: 7.6 Explosion Limits Upper[%(V/V)]: 20

Water Solubility: Reaction

Appearance: Colorless transparent liquid.

Structural formula:

CH₃ Si CI

CH₃ CI

Technological Index:

Item	Index	
Content of Methyltrichlorosilane/% ≥	99.0	
Content of Trimethylchlorosilane/% ≤	0.1	
Content of Silicon Tetrachloride/% ≤	0.1	

Properties and Uses

It is inflammable, explosive and toxic. It is a base material for manufacturing Methyl Triethoxysilane, Methyl Trimethoxysilane, silicone resins, specific paints, waterproof agent for construction and anti-collapse agent for drilling oil well (Methyl Silicate Sodium).

Package, Storage and Handling

Steel drum, 230kg/drum or Plastic Drum, 200kg/drum or ISO TANK. Storage at ventilate and dry place and prevention from water, heat and fire; It should be kept away from oxidant, acid and alkali. Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water, electrical sparks.

Incompatibilities with Other Materials: Strong oxidizing agents, alcohols, caustics, ammonia, water. Reacts violently with water to produce hydrogen chloride. Attacks many metals like aluminium and magnesium.

Hazardous Decomposition Products: The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride, phosgene, and chlorine compounds. Reacts violently with water to produce hydrogen chloride.



Dimethyldichlorosilane (DMDCS/M₂)

Product Name: Dimethyldichlorosilane (DMDCS)

Molecular Formula:(CH₃),SiCl,

Molecular Weight:129.1

CAS No.:75-78-5

UN No.:1162

Product Standard:GB/T 23953-2009

Physical and Chemical Properties:

Flash Point: -16°C(Closed cup)

Melting Point: -76°C

Boiling Point: 71°C

Auto-ignition Temperature: 380°C

Relative Density(water=1): 1.07

Relative Vapour density(air=1): 4.4

Vapour Pressure: 14.5 kPa (at 20°C) PH: Reacts with water to produce

hydrogen chloride.

Explosion Limits Lower[%(V/V)]: 3.4

Explosion Limits Upper[%(V/V)]: 9.5

Water Solubility: Reaction

Appearance: Colorless, transparent liquid with strong pungent smell

Structural formula:

CH₃ Si CH₃

CI

Technological Index:

Item	Index	
Content of Dimethyldichlorosilane/% ≥	99.5	
Content of Methyltrichlorosilane/% ≤	0.05	

Properties and Uses

It is inflammable and easy to explode. It is a base material for manufacturing organic silicon intermediates, silicone oil, silicone rubber and silicone resins. It can also be used to manufacture super heat-resisting and high strong silicon carban fiber.

Package, Storage and Handling

Steel drum/Plastic drum, net weight 200kg/ drum or ISO TANK. Storage at ventilate and dry place and prevention from water, heat and fire; It should be kept away from oxidant, acid and alkali. Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water, electrical sparks.

Incompatibilities with Other Materials: Strong oxidizing agents, water, alcohols, caustics, ammonia. Attacks many metals in presence of water. (Reacts violently with water to produce hydrogen chloride. Reacts violently with alcohols, amines causing fire and explosion hazard.)

Hazardous Decomposition Products: The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride, phosgene, and chlorine compounds. Reacts violently with water to produce hydrogen chloride.



Trimethylchlorosilane (TMCS/M₃)

Product Name: Trimethylchlorosilane (TMCS)

Molecular Formula:(CH3)3SiCl

Molecular Weight: 108.7

CAS No.:75-77-4

UN No.:1298

Product Standard:HG/T 5393-2018

Physical and Chemical Properties:

Flash Point: -28°C(Closed cup)

Melting Point: -58°C Boiling Point: 57°C

Auto-ignition Temperature: 395°C

Relative Density (water=1): 0.85

Relative Vapour density (air=1): 3.8 Water Solubility: Reaction

PH: Reacts with water to produce

hydrogen chloride.

Explosion Limits Lower[%(V/V)]: 1.8 Explosion Limits Upper[%(V/V)]: 6

Vapour Pressure: 26.7 kPa (at 20°C)

Appearance: Colorless or slightly yellow transparent liquid without mechanical impurities

Structural formula:



Technological Index:

Item	Index
Content of Trimethylchlorosilane/% ≥	99.00
Content of Methyltrichlorosilane/% ≤	0.20
Content of Silicon Tetrachloride/% ≤	0.10

Properties and Uses

It is a volatile and inflammable liquid, and mainly used to manufacture and capping agent MM, silazane, protective reagent for active radical group of antibiotics and etc.

Package, Storage and Handling

Steel drum/Plastic Drum, net weight 170kg drum or ISO TANK. Storage at ventilate and dry place and prevention from water, heat and fire; It should be kept away from oxidant, acid and alkali. Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water, electrical sparks.

Incompatibilities with Other Materials: Strong oxidizing agents, water, alcohols, caustics, ammonia. Attacks many metals in presence of water. (Reacts violently with water to produce hydrogen chloride. Reacts violently with alcohols, amines causing fire and explosion hazard.)

Hazardous Decomposition Products: The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride, phosgene, and chlorine compounds. Reacts violently with water to produce hydrogen chloride.



Methyldichlorosilane (MDCS/MH)

Product Name: Methyldichlorosilane (MDCS)

Molecular Formula:CH, HSiCl,

Molecular Weight:115

CAS No.:75-54-7

UN No.:1242

Product Standard:T/FSI 021-2019

Physical and Chemical Properties:

Flash Point: < -26°C(Closed cup)

Melting Point: -92°C

Boiling Point: 41°C

Relative Density(water=1): 1.1

Relative Vapour density(air=1): 3.97

PH: Reacts with water to produce

hydrogen chloride.

Auto-ignition Temperature: 290°C

Explosion Limits Lower[%(V/V)]: 6.5

Explosion Limits Upper[%(V/V)]: 55

Vapour Pressure: 47.1 kPa(at 20°C)

Water Solubility: Reaction

Appearance:Colorless,transparent liquid with strong pungent smell

Structural formula:



Technological Index:

Item	Index	
Content of Methyldichlorosilane/% ≥	99.50	
Content of Dimethylchlorosilane/% ≤	0.30	
Content of Silicon Tetrachloride/% ≤	0.20	

Properties and Uses

It is inflammable, explosive and toxic. It is mainly used to manufacture hydrogen silicone oil, methylhexenyl monomer and aminosilane, etc.

Package, Storage and Handling

Steel drum, net weight 200kg/drum. Storage at ventilate and dry place and prevention from water, heat and fire; It should be kept away from oxidant, acid and alkali. Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package.

Chemical Stability: Stable in closed containers under specified storage and handling conditions.

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water, electrical sparks.

Incompatibilities with Other Materials: Oxidizing agents, base, water, potassium permanganate, lead (II) oxide, copper oxide or silver oxide. Attacks many metals in presence of water. (Reacts violently with water to produce hydrogen chloride. Reacts in the presence of potassium permanganate, lead (II) oxide, copper oxide or silver oxide, causing fire and explosion hazard.) Hazardous Decomposition Products: The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride, phosgene, and chlorine compounds. Reacts violently with water to produce hydrogen chloride. The substance decomposes on contact with bases, forming flammable/explosive gas (hydrogen) . Hazardous Polymerization: Will not occur.



Fumed Silica

Product Name:Fumed Silica

Molecular Formula:SiO,

CAS No.:7631-86-9

Product Standard:GB/T 20020-2013

Physical and Chemical Properties: Melting Point/ Freezing Point: 1750°C

Vapour Pressure: 32hPa (25°C)

Relative Density (water=1): 0.22

Appearance: Fluffy White Powder

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Technological Index:

Item	Index		
Surface Area (m²/g)	HS-150 150~185	HS-200 185~225	
Ignition loss /% ≤	2	5	
Silicon dioxide /% ≥	99	.8	
Aluminium oxide /(mg/Kg) ≤	40	00	
Titanium Dioxide(mg/Kg) ≤	200		
Ferric Oxide/ (mg/Kg) ≤	30		
Content of Carbon /% ≤	0.2		
Chloride/(mg/kg) ≤	250		
PH Value in Aqueous Dispersion	3.7-	-4.5	
Volatilization Loss (105°C) /% ≤	1	2	
Tap density(g/dm³)	30~60		
45µm Sieve Residue /% ≤	25	50	

Properties and Uses

It is white, loose, amorphous, non-toxic and non-odorous nonmetal oxide. Due to the nanometer effect, it has excellent properties, such as reinforce, bodying, thixotropy, insulation and others. Therefore, it can be widely used in the rubber, plastic, paint coating, adhesive, seals and other polymer industrial area.

Package, Storage and Handling

10kg/paper bag. Keep in a cool, dry, well-ventilated place. Store away from incompatible substances such as oxidizing agents.



Precipitated Silica

Product name: Precipitated Silica

CAS No.: 10279-57-9

Product Standard: HG/T 3061-2009 Physical and Chemical Properties:

Melting Point/Freezing Point: 1610°C

Boiling Point/Range: >100°C Density(25°C): 2.6g/cm3

Water Solubility (g/l): no reaction

Appearance: White Powder

Technological Index:

Item	Index		
		HS-145	
Surface Area	/(m2	130-150	
SiO2/% ≥		90	
45μm Sieve F	Residue/% ≤	0.5	
Heating Loss	/%	4.0-8.0	
Ignition Loss	/% ≤	7.0	
PH Value in A	queous Dispersio	on 5.0-8.0	
Copper Conte	ent/ (mg/kg) ≤	10	
Manganese C	ontent / (mg/kg) ≤ 40	
Iron Content,	/ (mg/kg) ≤	500	
Oil Absorptio	n Value / (cm3/§	g) 2.0-3.5	

Remarks: In addition to the above, special specifications shall be determined through negotiation between the supplier and the buyer.

Properties and Uses:

It is used in tires to partially replace carbon black, and accordingly increase resilience, reduce costs and rolling resistance; Used as a carrier in animal feeds and medicine, as the reinforcing agent and filler in sports sole; It is the main component of silicone rubber, the abrasive agent in toothpaste, the raw material for insulation material aerogel, the reinforcing agent for insulating rubber, and the filler for photovoltaic accessories, etc.

Package, Storage and Handling:

Flim woven bag: fine powder 15kg/ bag coarse powder 20kg/bag; Ton bag: briquetting material 350kg/bag; Store it in a dry, ventilated and moisture-proof warehouse, and strictly prevent contamination caused by broken packages. Not to be mixed with items that can spoil the product or damage the bag. Any product that leaks out of the package never can be returned to the package.



High Boiling silicone oil

Product name: High Boiling Silicone Oil

CAS No.: /

Product Standard: T/FSI 007-2017 Physical and Chemical Properties:

Density(25°C): 0.900-1.100 g/cm3
Refractive index nD25: 1.430-1.470

Appearance: Oily liquids without visible

mechanical impurities

Properties and Uses:

It is used as a raw material in the field of sealants, as a treatment agent for dry-powder fire extinguisher; as a hydrophobic agent for powder materials, as antifouling agents, mold release agents and defoaming agents.

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Package, Storage and Handling:
Packed in clean, dry and well-sealed steel drum with plastic bag or plastic drum, with net weight:200kg, 1000kg or other grades. Store it in a cool, dry and ventilated place; Prevention from direct sunlight, isolation from fire sources and keep away from heat sources.

Technological Index:

Item		Inde	X			
	I	II	III	IV	TX	_
Dynamic Viscosity (25°C) /mm2/s)	4~50	51~100	101~150	151~200	special viscosity valu	ıe
Density(25°C) (g/cm3)	0.900	0~1.100				
Refractive Index nD25	1.430)~1.470				
Acid Value(in KOH terms)/ (mg/g)	\leq	0.20				

Remarks: In addition to the above, if customers have special requirements, it will be executed according to the contract.



Tetramethyldisiloxane (TMDS)

Product Name: Tetramethyldisiloxane

Molecular Formula: C4H14OSi2

Molecular Weight: 134.32

CAS No.:3277-26-7

Product Standard:Q/HSGY 023-2021

Physical and Chemical Properties:

Relative Density (water=1):0.757

Refractive Index (20°C):1.3669~1.371

Melting Point:-78°C Flash Point:-20°C

Boiling Point: 70-71°C

Appearance: Colorless and Transparent Liquid.

Structural Formula:

$$\begin{array}{ccc} \operatorname{CH_3} & \operatorname{CH_3} \\ \mid & \mid \\ \operatorname{H-Si-O-Si-H} \\ \mid & \mid \\ \operatorname{CH_2} & \operatorname{CH_3} \end{array}$$

Technological Index:

Item	Index
Content of Tetramethyldisiloxane/% ≥	99.00

Properties and Uses

It is not dissolvable in water, but dissolvable in organic solvents such as aromatic hydrocarbon, petroleum hydrocarbon, etc. It is widely used as a silicone intermediate. It can be used to synthesize polysiloxane containing functional groups. It is an important raw material for liquid silicone rubber, modified silicone fluid, plastic, resin modifier and dendrimer etc.

Package, Storage and Handling

Steel Drum, net weight 130kg/drum. Storage at ventilate and dry place, prevention from water, heat and fire. Handling according to hazardous substances. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, sunlight, etc.

Chemical Stability: Stable

Incompatible Materials: Strong oxidant

Conditions to Avoid: Incompatible materials, any sources of ignition or heat, exposure to moist air or water.

Decomposition Products: In case of a fire, oxides of carbon, hydrocarbons, silicon oxide, fumes, and smoke may be generated by decomposition or combustion.



Hydride Terminated Polydimethylsiloxane (Hydrogen Terminated Silicone Fluid)

Product name: Hydride Terminated Polydimethylsiloxane

(Hydrogen Terminated Silicone Fluid)

CAS No.: 70900-21-9

Product Standard: T/FSI 017-2019 Physical and Chemical Properties:

Freezing Point: <-60°C

Boiling Point/Range: 230°C

Flash Point: 215°C

Density (25°C): 0.971g/cm3

Appearance: Colorless transparent without visible impurities

Properties and Uses:

It is the basic intermediate raw material of hydrosily lation reaction, which is often used to manufacture various linear modified silicone fluid with terminal hydrogen reactivity, and it is the key intermediate of block copoly merization reaction.

Package, Storage and Handling:

IBC package, net weight 950kg/IBC. Keep it in a cool, dry and ventilated place. Prevention from direct sunlight, is olation from fire sources and keep away from heat sources.

Structural formula:

ÇH₃ ÇH₃ ÇH₃ H=Şi=O (Şi=O)_mSi=H CH₃ CH₃ CH₃

"m" is a natural number.

Technological Index:

Item		Inc	lex			
	HS-HT65	HS-HT120	HS-HT200	HS-HT280	HS-HT460	
Si—H Content/%	1.50-1.80	0.90-1.10	0.60-0.80	0.50-0.60	0.40-0.50	
Viscosity(25°C)/(mm2	/s) 55-75	105-135	180-220	250-310	410-510	
Volatile Substances C	Content(105°C,	1.5h)/% ≤ 3.	0			
Acid Value(in HCL ter	ms)/μg·g-1 ≤	10				

Remarks: In addition to the above, special specifications shall be determined through negotiation between the seller and the buyer.



Methyl Hydrogen Silicone Fluid

Product Name:Methyl Hydrogen Silicone Fluid Molecular Formula:C₃H₉OSi.(CH₄OSi)n.C₃H₉Si

CAS No.:63148-57-2

Product Standard:HG/T 4804-2015

Physical and Chemical Properties:Flash Point: ≥160°C (Opened cup)

Relative density (water=1):0.995~1.015

Appearance: Colorless transparent liquid without mechanical impurity

Structural formula:



Technological Index:

Item	Index	
Content of Hydrogen/%	1.55~1.65	
Viscosity (25°C) /(mm²/s)	15.00~30.00	
Acid value(in HCL terms)/PPm ≤	5	
Volatile Compounds/% ≤	2	

Note: It can be customized according to the requirements.

Properties and Uses

With the action of metal salt catalyst, it can form a durable waterproof membrane with good hydrophobic and high contact angle. It can be widely used as release agent in rubber and plastic industry, antirust agent for metal and anti-adhesive agent for paper and packing material. It can increase the performance of tear strength, abrasion resistance, crease-resist, anti-fouling, waterproof, ironing resistance and sewability without influencing the original breathability of the fabric. The optical glass coated with it will have high light transmittance, excellent mildew and moisture resistance.

Package, Storage and Handling

Steel drum, net weight 200kg/drum or International Bulk Container, net weight 1000kg/IBC. Storage at a cool, dry and well-ventilated place and keep away from alkaline, acid and moisture. It is non-hazardous substance. Be careful when loading and unloading to avoid damages of the package. During transportation, protect against damp, water, acid and alkali.



Polydimethylsiloxane (201 Methyl Silicone Fluid)

Product Name:Polydimethylsiloxane 201 Methyl Silicone Fluid
Molecular Formula:(C ₂ H ₆ OSi)n
CAS No.:63148-62-9
Product Standard:HG/T 2366-2015
Appearance: Colorless transparent liquid without mechanical impurity

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Structural formula:

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Properties and Uses

It can be widely used in skin and hand cream, skin cleaner, sunscreen products, shaving cream, deodorant, bath foam and hair conditioner, also can be made into polish and defoamer. It has excellent consistency with all kind of ingredient of cosmetics and dissolving capacity to vitamin, hormone, bactericide and anti-inflammatory drugs. With its hydrophobicity, it can form a lamina on the skin surface so as to keep vitamin and drugs stay on the skin surface for a long time. It has stable effect of nutrition and can make hair soft and smooth, adding gloss as well. With its excellent adaptability to extreme weather, translucency, electrical property, moisture resistance and chemical stability, it also can be made release agent of plastic or rubber materials.

Package, Storage and Handling

Steel drum, net weight 190kg/drum or International Bulk Container, net weight 950kg/IBC. Using sufficient exhaust equipment. Can't be taken orally. Please wash your hands after implement suitable indus-trial health measure, especially before smoking and diet. Please be cautious and keep it away from oxidability materials during storage.

Technological Index:

Item	Index						
	201-100	201-200	201-350	201-500	201-1000	201-12500	201-60000
Viscosity(25°C)/(mm ² /s)	100±5	200±20	350±20	500±25	1000±50	12500±630	60000±3000
Flash point(Opened cup),°C/ ≥	310	310	315	315	320	330	330
Density(25°C)/(g/cm³)	0.958~0.968	0.960~0.972	0.962~0.972	0.962~0.972	0.965~0.975	0.968~0.978	0.970~0.980
Refractive Index(25°C)	1.4020~1.4040	1.4020~1.4040	1.4020~1.4040	1.4020~1.4040	1.4025~1.4045	1.4025~1.4045	1.4025~1.4045
Acid value(in KOH terms)/ (μg/g)	≤ 10	10	10	10	10	/	/
Volatile(150°C,2h)/% ≤	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Note: It can be customized according to the requirements.



Vinyl Terminated Silicone Fluid

Product Name: Vinyl Terminated Silicone Fluid

CAS No.:68083-19-2

Product Standard: T/FSI018-2019

Appearance: Transparent liquid without mechanical impurities

Technological Index:

Grade	Viscosity (25°C) /mPa•s	Vinyl Content /%	Volatile (150°C, 2h) /% ≤
HS-100	90~110	0.90~1.10	1.5
HS-350	315~385	0.47~0.58	1.5
HS-500	450~550	0.37~0.46	1.5
HS-1000	900~1100	0.29~0.36	1.5
HS-3500	3150~3850	0.18~0.23	1.5
HS-10000	9000~11000	0.12~0.16	1.5
HS-60000	54000~66000	0.08~0.10	1.5
HS-100000	90000~110000	0.06~0.08	1.5

Note: Other specifications will be followed according to the contract.

Properties and Uses

It belongs to the addition polymer and has the physical properties of organic polymer as the modifier. It can be used for surface lubrication, scratch resistance, internal lubrication, demoulding effect, internal mold release agents, low temperature compliance, plasticizers, thermal stability, electrical insulation, weather resistancer, waterproof, gas permeability, thermoplastic extrusion promotion, etc.

Package, Storage and Handling

Steel drum, net weight 190kg/drum. Storage at a cool, dry and well-ventilated place and keep away from fire, rain, moisture and sunshine. Avoid to contact with strong acid and alkali. It is nonhazardous substance. Be careful when loading and unloading to avoid damages of the package.



Silicon Metal

Product Name: Silicon Metal

Grade:#3303、#411、#421、#441、#521、#553

CAS No.:7440-21-3

Product Standard:GB/T 2881-2014

Physical and Chemical Properties: Melting Point: 1410°C

Boiling Point: 2355°C

Relative Density (water=1): 2.30

Appearance: Grey with metallic luster

Technological Index:

Index Particle size 0~100mm Content of Chemical Composition /% ≤ Content of Si /% ≥ Grade Αl Ca Fe 3303 99.0 0.30 0.30 0.03 411 99.0 0.40 0.10 0.10 421 99.0 0.40 0.20 0.10 441 99.0 0.40 0.40 0.10 521 98.5 0.50 0.20 0.10 553 98.5 0.50 0.50 0.30

Note: Grade and particle size can be customized.

Properties and Uses

Mainly used for production of organic silicon, silica gel, poly-silicon, high purity semiconductor materials, special purpose alloys, desiccant silica gel, surface coating and etc.

Package, Storage and Handling

Net weight 1000 kg/woven bag. Storage at ventilate and dry place and prevention from water, heat and fire; Handling according to hazardous substances and prevention from exposing to sunlight and rain.



Silicon Metal Powder

Product Name: Silicon Metal Powder

Grade:#3303、#411、#421、#441、#521、#553

CAS No.:7440-21-3

Product Standard: YS/T1109-2016

Physical and Chemical Properties: Melting Point: 1410°C

Boiling Point: 2355°C

Relative Density (water=1): 2.30

Appearance: Grey with metallic luster

Technological Index:

Index Particle size 0~100mm Content of Chemical Composition /% ≤ Grade Content of Si /% ≥ Fe Αl Ca 3303 99.0 0.30 0.30 411 99.0 0.40 0.10 0.10 421 99.0 0.40 0.20 0.10 441 99.0 0.40 0.40 0.10 521 98.5 0.50 0.10 98.5 0.50 0.30 553 0.50

Note: Grade and particle size can be customized.

Properties and Uses

Mainly used for production of organic silicon, silica gel, poly-silicon, high purity semiconductor materials, special purpose alloys, desiccant silica gel, surface coating refractory material, powder metallurgy, construction and so on.

Package, Storage and Handling

Ton bag. Storage at ventilate and dry place and prevention from water, heat and fire; Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali.



Fine Silicon Metal Powder

Product Name: Fine Silicon Metal Powder

CAS No.:7440-21-3

Product Standard: Q/HSGY 015-2016

Physical and Chemical Properties: Melting Point: 1410°C

Boiling Point: 2355°C

Relative Density (water=1): 2.30

Appearance: Gray and black uniform fine powder

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Technological Index:

Item		Index	
Content of Si /% ≥		99.00	
Particle size/mm ≥325mesh/<45um	\geqslant	85%	

Properties and Uses

Mainly used for refractory material, powder metallurgy, construction, water conservancy project and so on.

Package, Storage and Handling

Ton bag, 800 kg / bag. Storage at ventilate and dry place and prevention from water, heat and fire; Handling according to hazardous substances and prevention from exposing to sunlight and rain. Be careful when loading and unloading to avoid damages of the package. During transporting, protect against damp, water, acid and alkali.