BOCTOK CHEMICAL
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BOCTOK Chemical, organic silicon products !

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Company profile

Shandong Boctok Chemical Co., was established in 2012 as a marketing and sales center for Boctok™ domestic and foreign businesses, achieving sales of USD280 million in 2023.

Boctok has three main product catagories, the first main business organosilicone covers twelve series of silane coupling agents and crosslinking agents including Amino silane, Methacrylate silane, Epoxy silane,Vinylsilane, Mercapto silane, Alkyl silane, Ethyl Silicate, Chlorine silane, Isocyanatesilane, Phenyl silane, Ureido silane andSulfur silane. Boctok also focus on silicon oil, silicon resin and silicon rubber, covering High hydrogen content silicone oil, dimethicone, vinyl silicone oil, Polyphenylmethyldimethylsiloxane, Phenyl silicone oil, Silanol silicone oil and OH polymer, Alkoxy silicone oil, Methyl MQ resin, Vinyl VMQ resin, Room temperature vulcanized methyl silicone rubber, 110 methyl vinyl silicone rubber, 120 methyl phenyl rubber. They are widely used in glass fiber,electronics,wind power,daily necessities, chemical industry,coatings,adhesives, XLPE Electrical cables and hot water pipes,oilfield drilling, textiles, rubber and casting, etc. to improve the quality and performance of applied products.

Boctok's main business of the second category is petroleum resin, we invested a key hydrocarbon resin manufacturer in China. At present time,we have three hydrocarbon resin plants in operation in total and they are located in Zibo, Fushun and Nanjing. Taking advantages of the reliable and abundant feed stock resources available in SINOPEC and Petro China, the perfect production faility and years of marketing experience our products are widely used by our clients,including many fortune 500 companies in both domestic and abroad markets. Covering C9 hydrogenated resins, C5 hydrocarbon resins, C5 modified C9 hydrocarbon resins, C9 hydrocarbon resins, C9 hydrocarbon resins, Dicyclopentadiene, Methyl Cyclopentadiene Dimer.

Boctok also concentrated on agrochemical industry. Covering pesticide intermediates and raw materials, fungicide, insecticide, seed treatment, herbicide, Plant Growth Regulator and so on.

Recently, Boctok invested USD 65 million build a new production plant which is located in Bohai Industrial Park, a provincial chemical industry park in Shouguang City, Shandong Province, to expand the product chain of silane coupling agents, with 6 DCS automatic production lines with an annual output of 30,000 tons of silane coupling agent. The production lines in the new factory are equipped with DCS automatic remote-control operating system,SIS safety instrument system and other, safety facilities, ISO9001 quality management system standards are implemented throughout the process to ensure stable quality .Environmental protection treatment facilities including waste gas collection and treatment system and sewage treatment system have been built.

Boctok's Products are sold all over China, and exported to North America, Europe, Japan, South Korea, Australia, South America, the Middle East, India, Southeast Asia, Russia, etc., well trusted by custom.

CONTENT

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Factory

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Silanes

Silanes can be used in various industry like:

- ✓ Adh.promoter/Coupling Agent
- ✓ Crosslinking Agent
- ✓ Reagent for Chem. systhesis
- ✓ Cobinder/Comonomer
- ✓ Water Scavenger
- ✓ Surface Modifier

Applications

- ✓ Adhesive & Sealants
- ✓ Coatings
- ✓ Roofing Coatings
- ✓ Rubber Manufacturing
- ✓ Mineral & Fiber Treatment

Amino silanes

CODE	CHEMICAL NAME	CAS#
UBK-1301	γ-Aminopropyltrimethoxysilane	13822-56-5
UBK-1302	γ-Aminopropyltriethoxysilane	919-30-2
UBK-1312	γ-Aminopropylmethyldiethoxysilane	3179-76-8
UBK-D1301	N-(β-Aminoethyl)-γ-aminopropyltrimethoxysilane	1760-24-3
UBK-D1301T	N-(β-Aminoethyl)-γ-aminopropyltrimethoxysilane (Technical grade)	1760-24-3
UBK-D1311	N-(β-Aminoethyl)-γ-aminopropylmethyldimethoxysilane	3069-29-2
UBK-BT1301	N-(n-Butyl)3-Aminopropyltrimethoxysilane	31024-56-3
UBK-B1301	Bis[3-(trimethoxysilyl)propyl]amine	82985-35-1
UBK-OD1301	Alkylpolysiloxanes, aminoalkyl groups, modified	----------

Epoxy silanes

CODE	CHEMICAL NAME	CAS#
UBK-2301	γ-Glycidoxypropyltrimethoxysilane	2530-83-8
UBK-2302	γ-Glycidyloxypropyltriethoxysilane	2602-34-8
UBK-2312	γ-Glycidoxypropylmethyldiethoxysilane	2897-60-1
UBK-2H22	2-(3, 4-epoxycyclohexyl)ethyltriethoxysilane	10217-34-2
UBK-O2301	Alkylpolysiloxanes, epoxy groups, modified	----------

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Silanes

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Applications

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Vinyl silanes

CODE	CHEMICAL NAME	CAS#
UBK-401	Vinyltrimethoxysilane	2768-02-7
UBK-402	Vinyltriethoxysilane	78-08-0
UBK-412	Vinyl-tris-(2-methoxyethoxy)silane	1067-53-4

Methacryloxy silanes

CODE	CHEMICAL NAME	CAS#
UBK-3301	γ-Methacryloxypropyltrimethoxysilane	2530-85-0
UBK-3311	Methacryloxypropylmethyldimethoxysilane	14513-34-9

Alkoxy Silanes

CODE	CHEMICAL NAME	CAS#
UBK-6101	Methyltrimethoxysilane	1185-55-3
UBK-6102	Methyltriethoxysilane	2031-67-6
UBK-6301	n-Propyltrimethoxysilane	1067-25-0
UBK-6802	n-Octyltriethoxysilane	2943-75-1
UBK-6402	Isobutyltriethoxysilane	17980-47-1
UBK-6040	Tetraethoxysilane, Si-40	11099-06-2
UBK-6042	Tetra Ethyl Silicate,99%	78-10-4



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Silanes

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- ✓ Surface Modifier

Applications
- ✓ Adhesive & Sealants
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- ✓ Rubber Manufacturing
- ✓ Mineral & Fiber Treatment

Phenyl Silanes

CODE	CHEMICAL NAME	CAS#
UBK-801	Phenyltrimethoxysilane	2996-92-1
UBK-802	Phenyltriethoxysilane	780-69-8

Ureido Silanes

CODE	CHEMICAL NAME	CAS#
UBK-9301	γ-Ureidopropyltrimethoxysilane (50% in methanol)	23843-64-3
UBK-9302	γ-Ureidopropyltriethoxysilane (50% in methanol)	23779-32-0

Sulfur Silanes

CODE	CHEMICAL NAME	CAS#
UBK-5301	γ-Mercaptopropyltrimethoxysilane	4420-74-0
UBK-5302	γ-Mercaptopropyltriethoxysilane	14814-09-6
UBK-264	Thiocyanatopropyltriethoxysilane	34708-08-2
UBK-S694	Bis[3-(triethoxysilyl)propylTetrasulfide	40372-72-3

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Silanes

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- ✓ Cobinder/Comonomer
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- ✓ Surface Modifier

Applications
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Acetoxy Silanes

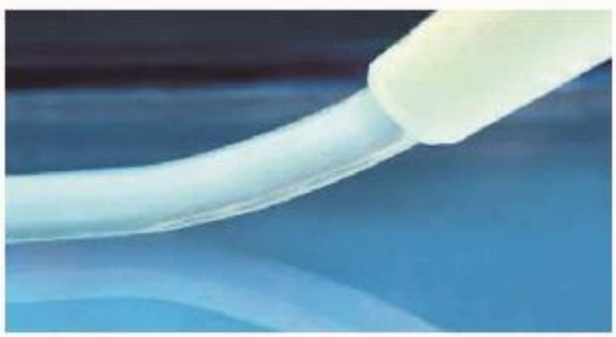
CODE	CHEMICAL NAME	CAS#
UBK-A103	Methyltriacetoxysilane	4253-34-3
UBK-A203	Ethyltriacetoxysilane	17689-77-9
UBK-A403	Di-tertbutoxy-diacetoxysilane	13170-23-5

Ketoxime Silanes

CODE	CHEMICAL NAME	CAS#
UBK-6MO	Methyltris(methylethylketoxime)silane	22984-54-9
UBK-6MT	90% MOS/10% TOS	----------
UBK-4VO	Vinyltris(methylethylketoxime)silane	2224-33-1
UBK-8PO	Phenyl tris(methylethylketoxime)silane	34036-80-1

Isocyanate Silanes

CODE	CHEMICAL NAME	CAS#
UBK-SL35	γ-Isocyanatopropyltrimethoxysilane	15396-00-6
UBK-SL25	γ-Isocyanatopropyltriethoxysilane	24801-88-5



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Silanol Polymers

Reactive silicone polymer is a series of silanol functional fluids with various viscosity and silanol contents. Reactive silicone polymers is useful in the treatment of fillers and as Anti-Structuring additives in high consistency silicone rubber and silicone Room Temperature Vulcanizing (RTV) formulations. The low viscosity grades can be used as reactive diluents for high viscosity polymers to adjust the overall viscosity of the formulation. BOCTOK® OH reactive silicone polymers is pure and do not contain any plasticizers or additives.

Applications
- ✓ Adhesive & Sealants
- ✓ Roofing Coatings
- ✓ One part RTV
- ✓ Rubber Manufacturing

Silanol Polymers

CODE	DESCRIPTION	CAS#	VISCOSITY
UBK-HTSP 750	Silanol terminated/OH 750	70131-67-8	750 cP
UBK-HTSP 1500	Silanol terminated/OH 1500	70131-67-8	1500 cP
UBK-HTSP 2000	Silanol terminated/OH 2000	70131-67-8	2000 cP
UBK-HTSP 3500	Silanol terminated/OH 3500	70131-67-8	3500 cP
UBK-HTSP 6000	Silanol terminated/OH 6000	70131-67-8	6000 cP
UBK-HTSP 14,000	Silanol terminated/OH 14,000	70131-67-8	14,000 cP
UBK-HTSP 20,000	Silanol terminated/OH 20,000	70131-67-8	20,000 cP
UBK-HTSP 50,000	Silanol terminated/OH 50,000	70131-67-8	50,000 cP
UBK-HTSP 80,000	Silanol terminated/OH 80,000	70131-67-8	80,000 cP
UBK-HTSP 300,000	Silanol terminated/OH 300,000	70131-67-8	300,000 cP

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Cyclic Siloxanes & Volatile Fluids

Cyclic Siloxanes & Volatile Fluids can be used in various industry like:

- ✓ Low surface tension-excellent spread ability and defoaming properties
- ✓ Crosslinking Agent
- ✓ Varying evaporation rates
- ✓ Exempt from VOC regulations, these products are useful for reducing the overall VOC concentration of a formulation when replacing / diluting VOC solvents

Applications

- ✓ Adhesive & Sealants
- ✓ Personal care
- ✓ Roofing Coatings
- ✓ Rubber Manufacturing
- ✓ Car body care

Cyclic Siloxanes

CODE	Chemical name	CAS#	VISCOSITY
UBK-O6084	Cyclotetrasiloxane/D4	556-67-2	2 cSt
UBK-O6105	Cyclopentasiloxane/D5	541-02-6	4 cSt
UBK-O6126	Cyclohexasiloxane/D6	540-97-6	6 cSt

Volatile Fluids

CODE	Chemical name	CAS#	VISCOSITY
UBK-O6062	Hexamethyldisiloxane	107-46-0	0.65 cSt
UBK-O6083	Octamethyltrisiloxane	107-51-7	1 cSt
UBK-O6104	Decamethyltetrasiloxane	141-62-8	1.5 cSt
UBK-O6125	Dodecamethylpentasiloxane	141-63-9	2 cSt
UBK-M6214	Mixture of Polydimethylsiloxane and Decamethyltetrasiloxane	141-62-8/ 63148-62-9	3.5 cSt



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Silicone Fluids

Silicone fluids/Dimethicones are a series of fluids with various viscosities and of excellent purity. Chemically known as dimethyl polysiloxane, they are completely soluble in all viscosities of dimethyl polysiloxaneuids and useful due to their many benefits.

Applications
- ✓ Car care
- ✓ Personal care
- ✓ Roofing Coatings
- ✓ One part RTV
- ✓ Rubber Manufacturing

Silicone Fluid

CODE	VISCOSITY	CAS#	VOLATILE %
UBK-O6201 50 (PDMS 50)	50 cSt	63148-62-9	<0.50%
UBK-O6201 100 (PDMS 100)	100 cSt	63148-62-9	<0.50%
UBK-O6201 350 (PDMS 350)	350 cSt	63148-62-9	<0.50%
UBK-O6201 500 (PDMS 500)	500 cSt	63148-62-9	<0.50%
UBK-O6201 1000 (PDMS 1000)	1000 cSt	63148-62-9	<0.50%
UBK-O6201 5000 (PDMS 5000)	5000 cSt	63148-62-9	<0.50%
UBK-O6201 10,000 (PDMS 10,000)	10,000 cSt	63148-62-9	<0.50%
UBK-O6201 12,500 (PDMS 12,500)	12,500 cSt	63148-62-9	<0.50%
UBK-O6201 30,000 (PDMS 30,000)	30,000 cSt	63148-62-9	<0.50%
UBK-O6201 60,000 (PDMS 60,000)	60,000 cSt	63148-62-9	<0.50%
UBK-O6201 100,000(PDMS 100,000)	100,000 cSt	63148-62-9	<0.50%
UBK-O6201 600,000(PDMS 600,000)	600,000 cSt	63148-62-9	<0.50%

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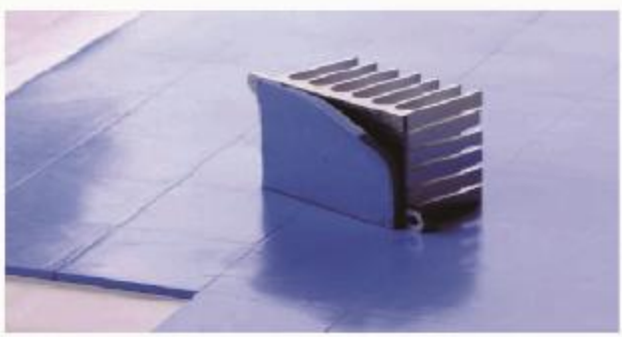
Vinyl Silicone Fluids

Vinyl-terminated dimethylpolysiloxanes are available in a range of viscosities and vinyl contents. They can be used as base polymers or blend polymers to create the desired hardness.

Applications
- ✓ Car care
- ✓ Personal care
- ✓ Roofing Coatings
- ✓ One part RTV
- ✓ Rubber Manufacturing

Silicone Fluid

CODE	Chemical name	Vinyl content	VISCOSITY
UBK-V4201 100	Vinyl terminated polydimethylsiloxane	0.37 mmoles/gm	100 cP
UBK-V4201 200	Vinyl terminated polydimethylsiloxane	0.25 mmoles/gm	200 cP
UBK-V4201 245	Vinyl terminated polydimethylsiloxane	0.22 mmoles/gm	245 cP
UBK-V4201 300	Vinyl terminated polydimethylsiloxane	0.21 mmoles/gm	300 cP
UBK-V4201 350	Vinyl terminated polydimethylsiloxane	0.20 mmoles/gm	350 cP
UBK-V4201 500	Vinyl terminated polydimethylsiloxane	0.15 mmoles/gm	500 cP
UBK-V4201 1000	Vinyl terminated polydimethylsiloxane	0.11 mmoles/gm	1000 cP
UBK-V4201 2000	Vinyl terminated polydimethylsiloxane	0.08 mmoles/gm	2000 cP
UBK-V4201 5000	Vinyl terminated polydimethylsiloxane	0.06 mmoles/gm	5000 cP
UBK-V4201 10,000	Vinyl terminated polydimethylsiloxane	0.05 mmoles/gm	10,000 cP
UBK-V4201 20,000	Vinyl terminated polydimethylsiloxane	0.04 mmoles/gm	20,000 cP
UBK-V4201 60,000	Vinyl terminated polydimethylsiloxane	0.03 mmoles/gm	60,000 cP
UBK-V4201 100,000	Vinyl terminated polydimethylsiloxane	0.02 mmoles/gm	100,000 cP



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Methyl Hydrogen Fluids

Methyl hydrogen fluids are methyl hydrogen polysiloxanes end-capped with trimethyl siloxy groups. Methyl hydrogen fuids are primarily used to treat powders to keep them dry, as an anti-caking material and are also highly water repellent.

Applications
- ✓ Gypsum
- ✓ Waterproofing
- ✓ Mineral & Fiber Treatment

Methyl Hydrogen Fluid

CODE	Chemical name	CAS#	VISCOSITY
UBK-MH20	MethylHydrogenPolysiloxane	9004-73-3	20 cSt
UBK-MH30	MethylHydrogenPolysiloxane	9004-73-3	30 cSt

Silicas

Medium surface fumed silica which imparts a significant increase in viscosity in liquid systems, free flow of powders and reinforcement of silicone and organic rubbers. It's stable in high and low temperature.

Applications
- ✓ Two part RTV
- ✓ Roofing Coatings
- ✓ One part RTV
- ✓ Rubber Manufacturing

Silica

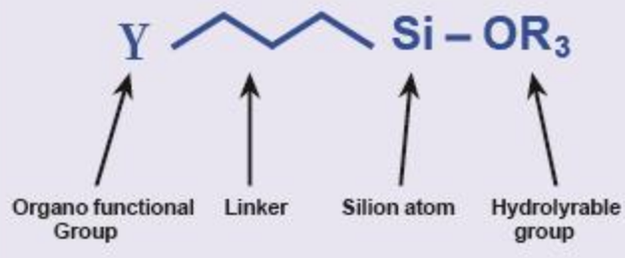
CODE	Specific Surface Area	Loss On Dry	Loss On Ignition
UBK-HL150	150 ± 25 m2/g	≤ 3.0%	≤ 2.5%
UBK-HL200	200 ± 30 m2/g	≤ 1.0%	≤ 2.5%

Catalysts

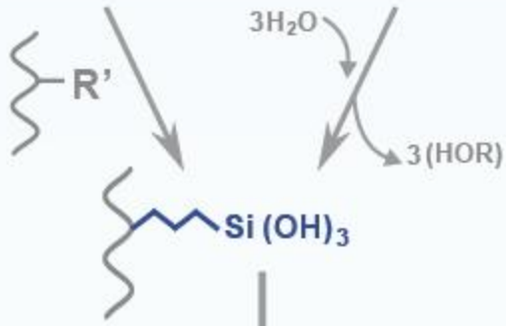
Tin Catalyst — **Used in the condensation cure of silicones, and the synthesis of polyurethanes & esters.**

CODE	Chemical name	CAS#
UBK-101	Dibutyltin dilaurate	77-58-7
UBK-80	Dimethyltindineodecanoate	68928-76-7

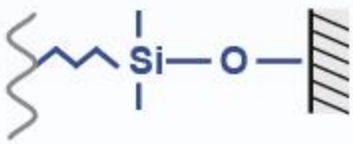
BOCTOK® Chemical Organofunctional Silanes

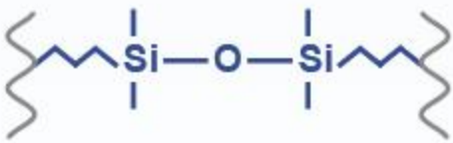


BOCTOK® Chemical Silanes are extremely versatile products that can react with a wide variety of organic and inorganic materials. Their unique ability as coupling agents, crosslinking agents and surface modifiers have been proven in an everincreasing number of applications, ranging from adhesives to coatings to composites to polymer modifications.



The benefits of moisture curable BOCTOK® Chemical silanes that can impart to these end-use applications are highlighted below.





As coupling agent for use in:	
Adhesives Sealants Coatings	Wet adhesion; Adhesion to difficult substrates.
Glass-fiber	Resiliency of insulation batts; Wet strength & electrical properties.
Filler Treatment	Filler dispersion in thermoset and thermoplastic resins.
Textiles	Water repellency; Dye receptivity; Hand feeling.

As crosslinker for use in:	
Coatings Printing Inks	Chemical resisitance; Corrosion resistance; Weatherability; Scrub resistance; Wet adhesion; Release and wetting.
Thermoplastics Rubbers & Elastomers	Elevated temperature application; Toughness; Abrasion resistance; Rolling resistance; Wet electrical properties.
Foundry Crude Oil Extraction	Core strength.

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BOCTOK® Silane/Polymer Selection Guidelines

Polymer	Silane Type							
	Amino	Epoxy	Methacryloxy	Vinyl	Mercapto	Sulfur	Ureido	Isocyanato
Acrylic	☆	☆	△		△			△
Acrylic latex	#	△	☆	☆				
Butyl		△	☆		△	△		
Cellulosics	△			#				△
Epoxy	☆	△			△			
Furan	☆	△						
Melamine	☆	△						△
Neoprene					☆			
Nitrile	#	#			☆	☆		
Nitro-cellulose	△							
Phenolic	△	△			△		☆	
Polyamide	☆	△					△	☆
Polyester	#	#	☆	△				
Polyether	#		☆					
Polyolefin	#	△	☆	☆				
Polysulfide	#	#			☆	☆		
Polyurethane	☆	#			☆		△	☆
Polyvinyl butyral	#						☆	
PUD	△	#						
Silicone			☆	△			☆	
SBR emulsion		#						
Styrene butadiene	#	#			☆	☆		
Urea-formaldehyde	△	△					☆	☆
Vinyl	△							

☆ =Most or generally effective　　△ =Effective or popular　　# =Only effective with specific silane grades

Product Safety

When considering the use of any BOCTOK Chemical products in a particular application, you should review our latest Material Safety Data Sheet and ensure that the use you intend can be accomplished safely. For Material Safety Data Sheet and other product safety information, contact a BOCTOK Chemical sales representative or BOCTOK Chemical Sales Department. Before handling any other products mentioned in the text, you should obtain available product safety infomation and take necessary steps to ensure safety of use.

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Silicone Oil

Silicone oil has excellent heat resistance, electrical insulation, weather resistance, hydrophobicity, physiological inertia and low surface tension, in addition to low viscosity-temperature coefficient, high resistance to compression.

Applications
- ✓ Construction;
- ✓ Electrical and Electronic;
- ✓ Textile;
- ✓ Automotive and Machinery;
- ✓ Leather and Paper;
- ✓ Chemical and Light Industry;
- ✓ Metal and Paint;
- ✓ Pharmaceutical and Medical,etc.

Silicone Fluid

PRODUCT NAME	CAS#	VISCOSITY	SPECIFIC GRAVITY
Methyl Silicone Oil	63148-62-9	2000~5000	0.913~0.98
Amino Silicone Oil	63148-62-0	700~15000	0.93~1
Vinyl Silicone Oil	26710-23-6	25~66000	0.97~0.98
Hydroxy Silicone Oil	70131-67-8	20~3500	0.92~0.98

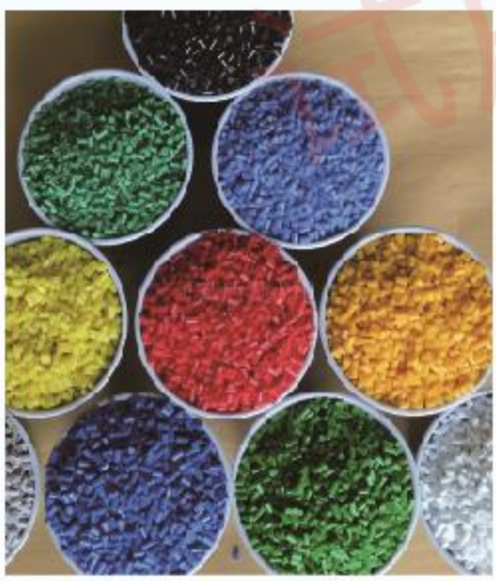
Silicone Resin

Silicone resin can be used in various industry like
- ✓ silicone insulating varnish
- ✓ silicone paint
- ✓ silicone adhesive
- ✓ silicone plastic, etc

Applications
- ✓ Adhesive & Sealants
- ✓ Coatings
- ✓ plastic

Silicone Resin

CODE	CHEMICAL NAME	CAS#
UBK-6070	Methyl silicone resin	67763-03-5
UBK-40878	Phenyl silicone resin	68037-68-3
UBK-8896	Methyl vinyl silicone resin	68988-89-6
BCTK-935074	Vinyl silicone resin	68584-83-8



Silicone Rubber

Silicone rubber has good low temperature resistance.
The heat resistance of silicone rubber is also outstanding.
Silicone rubber has good air permeability

Silicone rubber is mainly used as a bonding agent, potting material or mold.

Silicone Gum

CODE	CHEMICAL NAME	VOLATILE CONTENT
UBK-110&120	110 and 120 Metheyl Vinyl Silicone Gum	1.0/1.5
UBK-101	101 Methyl Silicone Gum	1.5
UBK-101B	101B Hydroxyl Silicone Gum	1.0

Silicone Rubber Compound

CODE	CHEMICAL NAME	TENSILE STRENGTH
UBK-131	Translucent Silicone Rubber for Molding and Extrusion	6.0
UBK-130	Subtranslucent Silicone Rubber for Molding and Extrusion	6.0
UBK-7125	Common Silicone Rubber for Molding and Extrusion	3.5
UBK-8131	High-strength Silicone Rubber for Molding	6.0
UBK-10	Ultra-low-hardness Silicone Rubber	1.5
UBK-941DL	Silicone rubber for cable accessories	10

Insulating silicone rubber

CODE	CHEMICAL NAME	TENSILE STRENGTH
UBK-C50	Ceramic Silicone Rubber	5.5
UBK-Z130	Flame Retardant Silicone Rubber	3.5
UBK-1-1U	Electrical Insulating Silicone Rubber	4.5

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CONTACTS

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