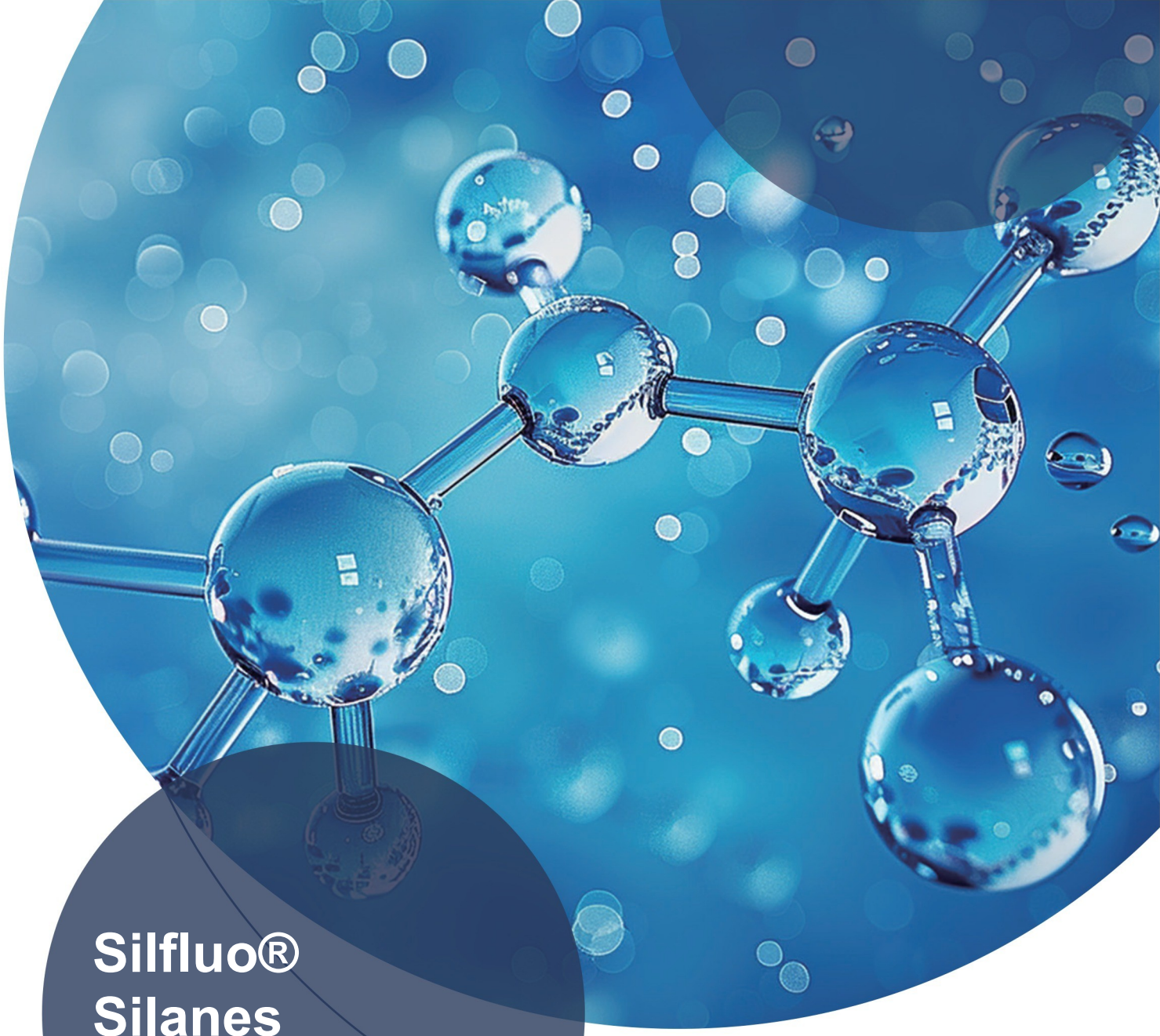


Silfluo®
Silanes

Silanes · Siloxanes · Silazanes

Nanjing Silfluo New Material Co., Ltd.

Silfluo

www.silfluosilicone.com

MANAGEMENT SYSTEM

The Silfluo Quality Management Framework is not a stand-alone platform. It is embedded in the broader Silfluo Operating Discipline Framework, which brings together the policies, standards and workflows for environment, health, safety, manufacturing, human resources and quality. The quality management system is certified to ISO 9001.

With this integrated framework, Silfluo works to one cohesive system based on industry best practice.





SILFLUO QUALITY MANAGEMENT SYSTEM

The Silfluo Quality Management System, established and supported by company leadership, ensures that customers receive dependable products and services and that their needs and expectations are met. It requires strict compliance with technical specifications, regulatory standards and quality benchmarks.

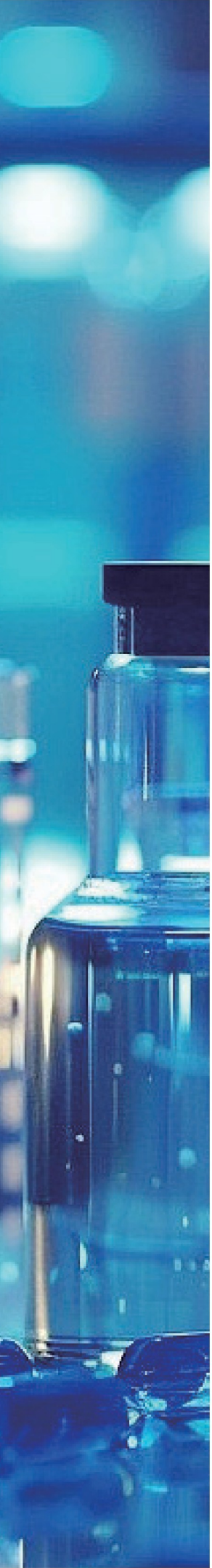
Product quality is upheld through standardization and precise process control. Service quality covers all customer interactions and is overseen by the responsible functional area. The quality attributes of both products and services are defined and agreed upon by Silfluo and its customers.



QUALITY PERFORMANCE STATEMENT

Excellence in quality is a shared responsibility and a core value for every Silfluo team member. It is achieved through collaboration, dedication and a commitment to continuous improvement.

We are committed to delivering products and services that meet or exceed customer expectations. Quality management ensures that we consistently deliver the products and services our customers trust.



QUALITY MEASUREMENT SYSTEMS

Silfluo uses QDG (Quality Data Gather) systems to track and evaluate progress in quality improvement. The QDG systems handle high-volume testing, so that every production batch is tested with validated methods.

CONVENTIONAL TEST ITEMS	
Test item	**Equipment**
Chloride ion	Ion chromatography
Hydrolyzable chlorine	Automatic titrator
Conductivity	Conductivity meter
Purity	Gas chromatography (GC)
Moisture	Karl Fischer moisture tester
Density	Density meter
Refractive index	Abbe refractometer
Others	



Ion chromatography



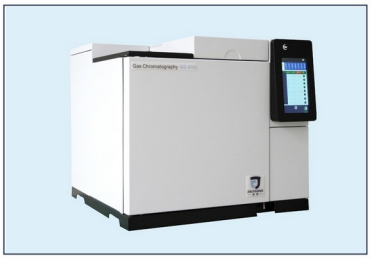
Ion chromatography



Automatic titrator



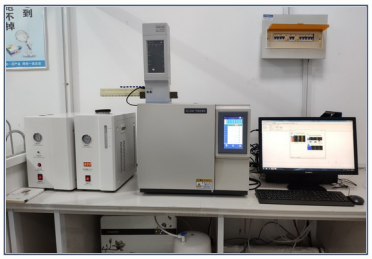
Conductivity meter



Gas chromatography



Gas chromatography



Gas chromatography



GC laboratory



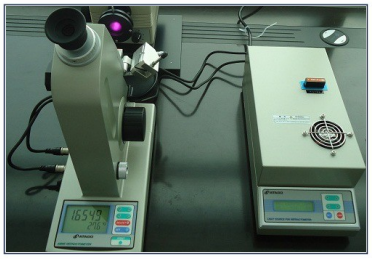
Karl Fischer moisture tester



Density meter



Abbe refractometer



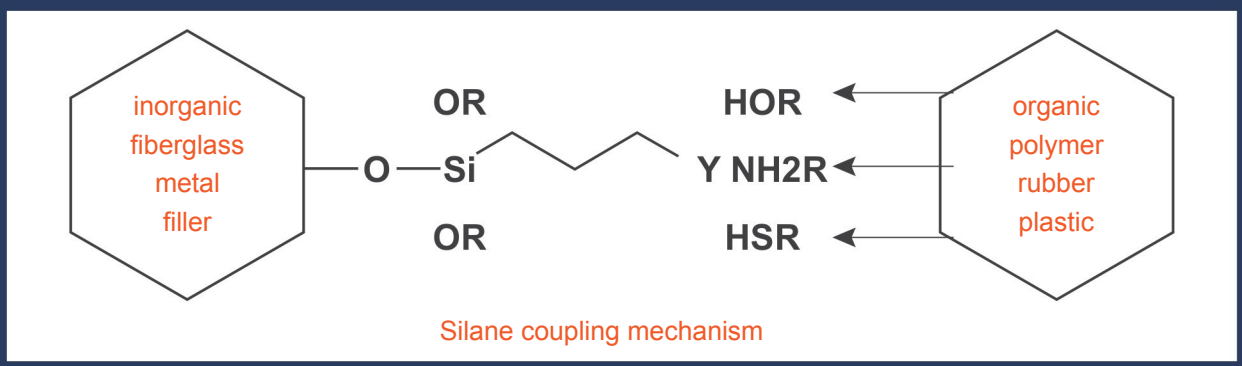
Abbe refractometer

SILANE COUPLING AGENTS

Silane coupling agents are silicon-based chemicals with dual reactivity – inorganic and organic – in the same molecule, which makes them well suited to bridging organic polymers and inorganic surfaces. Their general structure and reactive groups:

A silane coupling agent typically has the structure $R–Si(OR')_3$

- R: an organic functional group that reacts with polymers, resins or adhesives
- $Si(OR')_3$: hydrolyzable alkoxy groups that bond to glass, silica, metals and ceramics



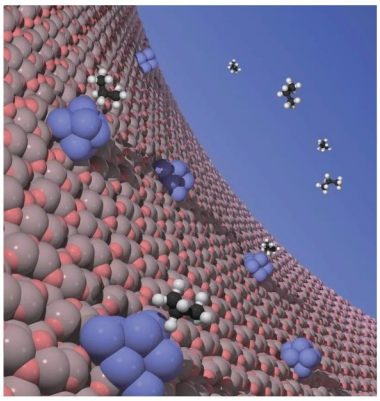
Silane coupling mechanism

The alkoxy groups $Si(OR')_3$ hydrolyze to silanols that bond chemically to inorganic materials such as glass, metals, silica fillers, stone and ceramics. The organic functional group R reacts with organic materials such as synthetic resins, polymers and adhesives. Common organic groups are vinyl, epoxy, amino, methacryloxy and mercapto groups.

WHY SILANE COUPLING AGENTS ARE USED

Silane coupling agents are used mainly to improve adhesion between materials that are difficult to combine, such as organic polymers (plastics, rubbers) and inorganic materials (glass, metals, ceramics). Their reactive groups interact with both types of surface and form a durable, stable interface.

The main reasons for using silane coupling agents:



01 Enhanced Adhesion

Silane coupling agents form molecular bridges between dissimilar materials. Their bifunctional structure includes:

- Silane group: reacts with inorganic surfaces, e.g. hydroxyl groups on glass, silica or metals.
- Organic group: bonds with organic materials such as resins or polymers.
- This dual reactivity forms chemical bonds that improve adhesion.



02 Improved Mechanical Properties

Silanes strengthen composites by reinforcing the interface between fillers (e.g. silica, glass fibers) and polymers. This reduces interface failure under stress and improves tensile strength, flexural strength and fatigue resistance.



03 Increased Moisture Resistance

In composites or coatings, moisture at the interface can weaken adhesion.
Silane coupling agents reduce water permeability and improve the hydrolytic stability of the interface.



04 Surface Modification

Silanes modify the surface energy of inorganic materials, so that organic materials such as adhesives, paints or coatings wet and bond to the surface more easily.



05 Improved Chemical Resistance

Silanes improve the chemical durability of composites by creating a more stable bond at the interface.



06 Applications in Filled Polymers

In polymers filled with silica or calcium carbonate, silane coupling agents improve filler dispersion, reduce agglomeration and increase compatibility with the polymer matrix.

07 Corrosion Protection



Silane treatments on metal surfaces form a protective, chemically bonded layer that improves corrosion resistance.
Typical uses of silane coupling agents:
Glass fiber-reinforced composites, e.g. in the automotive and aerospace industries.
Paints, coatings and adhesives with better adhesion to metals or glass.
Rubber reinforced with silica fillers.
Sealants and moisture-resistant coatings.
Encapsulation materials for electronics.

NEW PRODUCTS ARE UNDER DEVELOPMENT. CUSTOMIZATION REQUESTS ARE WELCOME.

INDUSTRY

Silane coupling agents improve adhesion and durability and modify surface properties. Their main applications by industry are listed below.

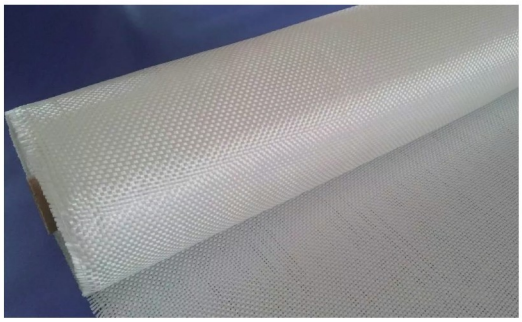
01

COMPOSITE MATERIALS INDUSTRY

Application: Silanes improve the bond between glass fibers or mineral fillers and the resin matrix.

Examples:

- Glass fiber-reinforced plastics (GFRP) for automotive, construction and aerospace.
- Mineral-filled composites with higher mechanical strength.
- Common silanes: vinyl, amino and methacryloxy silanes.







02

PAINTS, COATINGS AND SURFACE TREATMENT INDUSTRY

Application: Silanes enhance adhesion, water resistance and chemical resistance of coatings on metal, glass, ceramics and concrete.

Examples:

- Anti-corrosion coatings on metals.
- Primers that improve paint adhesion to glass or metal.
- Hydrophobic treatments that reduce water uptake of concrete and stone.
- Common silanes: epoxy, amino and methacryloxy silanes.





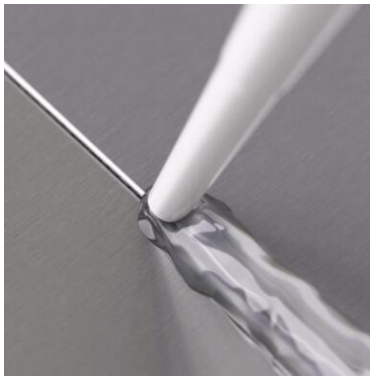
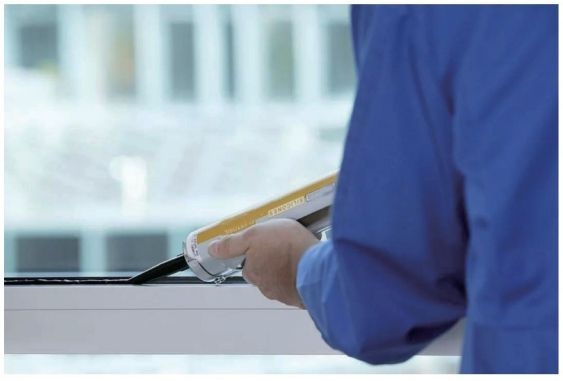
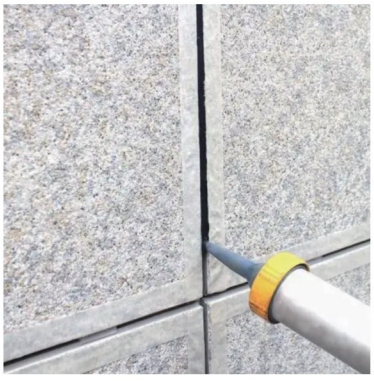

03

ADHESIVES AND SEALANTS INDUSTRY

Application: Silanes act as adhesion promoters that bond epoxy, polyurethane and silicone adhesives to metals, glass and ceramics.

Examples:

- Structural adhesives for automotive and construction.
- Sealants for windows, doors and building joints.
- Common silanes: amino, epoxy and mercapto silanes.

04

RUBBER AND TIRE INDUSTRY



Application: Silanes improve the dispersion of fillers such as silica and the mechanical properties of rubber compounds.

Examples:

- Tires with better wear resistance and lower rolling resistance.
- Rubber hoses, belts and gaskets.
- Common silanes: mercapto and sulfur-functional silanes.

05

PLASTICS AND POLYMERIC MATERIALS INDUSTRY



Application: Silanes improve the compatibility between polymers and inorganic fillers or reinforcements.

Examples:

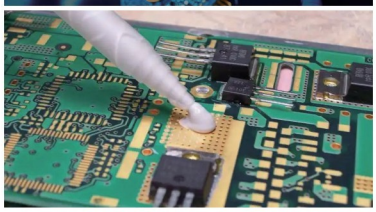
- Filled plastics for automotive parts, consumer electronics and appliances.
- Polymer composites with higher tensile strength and dimensional stability.
- Common silanes: vinyl and amino silanes.

06

ELECTRONICS INDUSTRY







Application: Silanes are used for encapsulation, insulation and protection of electronic components.

Examples:

- Moisture-resistant coatings for semiconductors and printed circuit boards (PCBs).
- Better adhesion of encapsulants and potting compounds.
- Common silanes: epoxy and amino silanes.

07

CONSTRUCTION INDUSTRY





Application: Silanes improve the durability of concrete, stone and masonry.

Examples:

- Water-repellent treatments for concrete and stone.
- Anti-corrosion primers for steel reinforcement.
- Adhesion promoters for construction adhesives and sealants.
- Common silanes: alkyl, amino and vinyl silanes.

08

TEXTILE AND LEATHER INDUSTRY

Application: Silanes treat fibers and improve adhesion to coatings and resins.

Examples:

- Textile finishes with better water resistance.
- Adhesion in leather coatings.
- Common silanes: amino and epoxy silanes.



09

OIL AND GAS INDUSTRY

Application: Silanes are used as water repellents, corrosion inhibitors and adhesion promoters.

Examples:

- Water-repellent coatings for pipelines and offshore platforms.
- Bonding of composite materials in drilling tools.
- Common silanes: epoxy and alkyl silanes.



10

PHARMACEUTICAL AND BIOMEDICAL INDUSTRY

Application: Silanes modify the surfaces of medical devices for better compatibility and adhesion.

Examples:

- Surface treatment of implants for better biocompatibility.
- Adhesion promoters for dental composites and bonding agents.
- Common silanes: methacryloxy and epoxy silanes.



11

RENEWABLE ENERGY INDUSTRY

Application: Silanes are used in materials for solar panels and wind turbines.

Examples:

- Adhesion promoters in photovoltaic module manufacturing.
- Protective treatments for wind turbine blades.
- Common silanes: methacryloxy and epoxy silanes.



Grade · Name · CAS	Description	Typical data (TDS)	Structure

01 PHENYL SILANES & SILOXANES

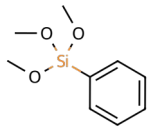
Phenyl groups raise thermal stability, refractive index and compatibility with organic resins. These silanes, silanols and phenyl siloxanes are monomers, end-cappers and crosslinkers for phenyl silicone fluids, resins and rubbers, LED encapsulants and high-vacuum fluids.

LS-M11
Phenyltrimethoxysilane
CAS 2996-92-1

Phenyl silane coupling agent for EMC, sol-gel coatings, filler treatment and phenyl silicone resins.

Comparable to*: Momentive Silquest A-153, Evonik Dynasylan 9165, Shin-Etsu KBM-103

Purity (GC), %
98 min
Density (20 °C), g/cm³
1.0620±0.0050
Refractive index (nD25)
1.4650–1.4750

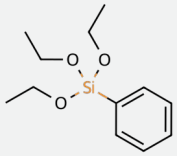


LS-E11
Phenyltriethoxysilane
CAS 780-69-8

Phenyl silane for sol-gel coatings, filler surface treatment and phenyl silicone resin synthesis.

Comparable to*: Dow Z-9805, Evonik Dynasylan 9265, Wacker Silan P Triethoxy, Shin-Etsu KBE-103

Purity (GC), %
98.0 min
Density (20 °C), g/cm³
0.991–1.001
Refractive index (nD25)
1.4668–1.4768

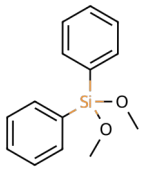


LS-M12
Diphenyldimethoxysilane
CAS 6843-66-9

Phenyl silane for phenyl silicone polymers, Ziegler-Natta catalyst donors and Li-ion electrolytes.

Comparable to*: Evonik Dynasylan 6010, Shin-Etsu KBM-202SS, Dow AY43-047 / Z-6047

Purity (GC), %
98.0 min
Density (20 °C), g/cm³
1.000–1.100
Refractive index (nD25)
1.5350–1.5450

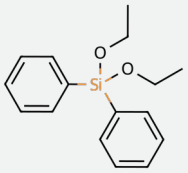


LS-E12
Diphenyldiethoxysilane
CAS 2553-19-7

Phenyl silane for phenyl silicone polymers, Ziegler-Natta catalyst donors and Li-ion electrolytes.

Comparable to*: Shin-Etsu KBE-202, Dow 1-6533

Purity (GC), %
98.0 min
Density (20 °C), g/cm³
1.028–1.038
Refractive index (nD20)
1.519–1.529

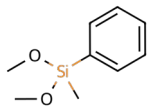


LS-M13
Dimethoxymethylphenylsilane
CAS 3027-21-2

Difunctional monomer for phenyl silicone fluids, PVMQ rubber and high-RI LED encapsulants.

Comparable to*: Dow Z-2588

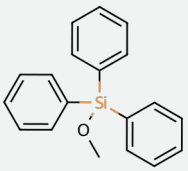
Purity
98% min
Density (20 °C), g/cm³
0.980–1.000
Refractive index (nD25)
1.4720–1.4820



LS-M14
Methoxytriphenylsilane
CAS 1829-41-0

Monofunctional end-capper for phenyl silicone resins and fluids and a triphenylsilylating agent.

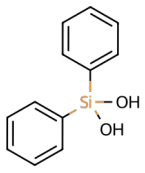
Purity (GC), %
98.0 min
Density (25 °C), g/cm³
1.08
Refractive index (nD25)
No data



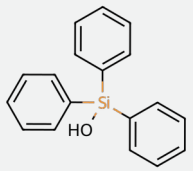
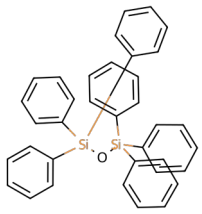
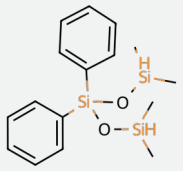
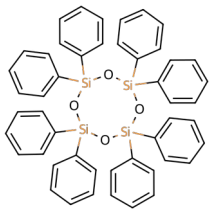
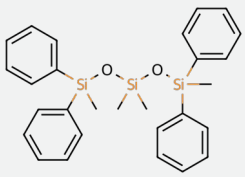
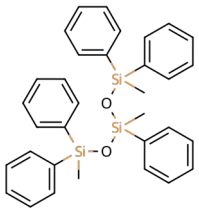
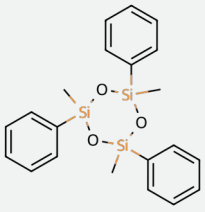
LS-H12
Dihydroxydiphenylsilane
CAS 947-42-2

Phenyl silanol monomer for high-RI phenyl silicone resins, LED encapsulants and HCR anti-structuring.

Purity (GC), %
98.0 min

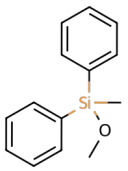
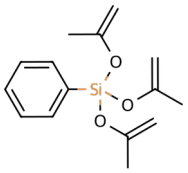


* Comparable grades are given for orientation only; they do not mean identical composition or performance. Confirm suitability by testing.
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Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-H13 Hydroxytriphenylsilane CAS 791-31-1	Phenyl silanol end-capper for high-RI silicone resins and fluids and a pharmaceutical intermediate. Comparable to*: Dow Z-6800	Purity (GC), % **99.0 min** Refractive index (nD20) **1.7770** Flash Point **>200°C**	
LS-614 Hexaphenyldisiloxane CAS 1829-40-9	Solid phenyl siloxane end-capper for high-RI LED encapsulants, phenyl fluids and electronic potting.	Purity (GC), % **98.0 min** Flash Point **>200°C**	
LS-615 1,1,5,5-Tetramethyl-3,3-diphenyl-trisiloxane CAS 17875-55-7	Si–H phenyl crosslinker for addition-cure high-RI LED encapsulants, phenyl LSR and potting.	Purity (GC), % **90.0** Density (25 °C), g/cm³ **0.9936** Refractive index (nD25) **1.5330**	
LS-618 Octaphenylcyclotetrasiloxane CAS 546-56-5	Cyclic phenyl monomer for phenyl silicone fluids and PVMQ and a flame-retardant synergist in PC.	Boiling Point **332°C (1 mmHg)** Flash Point **200°C**	
LS-644 1,1,5,5-Tetraphenyltetramethyltrisiloxane CAS 3982-82-9	Diffusion pump fluid for high-vacuum systems, thin-film deposition and heat transfer. Comparable to*: Dow DC-704, Shin-Etsu HIVAC-F4	Purity (GC), % **90.0 min** Density (25 °C), g/cm³ **1.07** Refractive index (nD20) **1.559**	
LS-653 1,1,3,5,5-Pentaphenyl-1,3,5-trimethyltrisiloxane CAS 3390-61-2	Ultra-high-vacuum diffusion pump fluid for electron microscopes and thin-film coaters. Comparable to*: Dow DC-705, Shin-Etsu HIVAC-F5	Purity (GC), % **98.0 min** Density (25 °C), g/cm³ **1.09** Refractive index (nD25) **1.58**	
LS-6345 Methylphenylcyclosiloxanes (D3, D4, D5 mixture) CAS 546-45-2 / 77-63-4 / 34239-75-3	Ring-opening monomer for PVMQ rubber and phenyl fluids and an ingredient in personal care.	Purity (GC), % **98.0 min** Density (20 °C), g/cm³ **1.08** Refractive index (nD20) **1.54–1.55**	

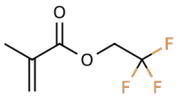
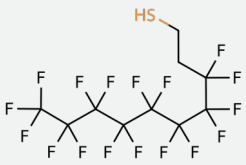
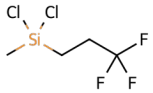
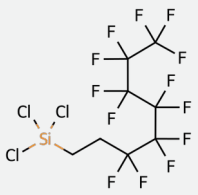
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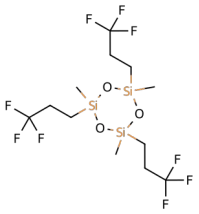
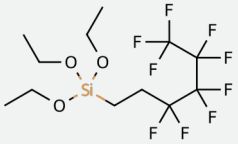
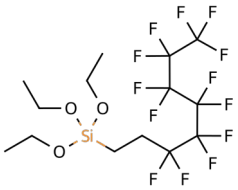
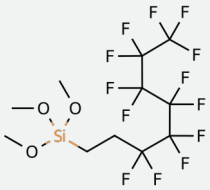
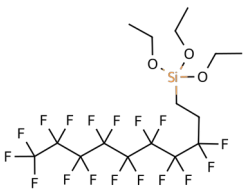
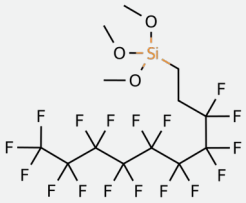
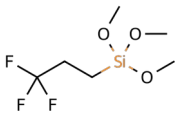
Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-M121 Methyldiphenylmethoxysilane CAS 18407-48-2	Monofunctional end-capper for high-RI phenyl silicone resins, phenyl fluids and phenyl rubber.	Purity (GC), % **99 min** Density (25 °C), g/cm³ **1.055–1.065** Refractive index (nD25) **1.5300–1.5330**	
LS-P60 Phenylsilsesquioxane CAS 73559-47-4 / 70131-69-0	Gloss film-former for hair care, color cosmetics, sun care and skin care. Comparable to*: Wacker Belsil SPR 45 VP, Gelest SST-3P01	Active content **35–40%** Density (20 °C), g/cm³ **0.97–0.99** Refractive index (nD20) **1.4549–1.4626**	
LS-PHIPS Phenyltriisopropenoxysilane CAS 52301-18-5	Acetone-releasing crosslinker for neutral-cure RTV silicone sealants and potting.	Purity (GC), % **95 min** Density (25 °C), g/cm³ **1.055–1.065** Refractive index (nD25) **1.4900–1.5000**	

02 FLUORO SILANES & SILOXANES

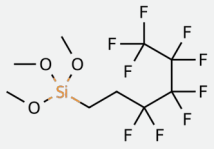
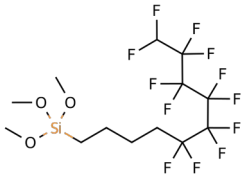
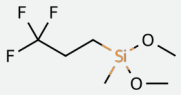
Fluoroalkyl groups give very low surface energy. The fluorosilanes are used in anti-fingerprint, easy-clean and release coatings; the trifluoropropyl grades are monomers for fluorosilicone fluids and FVMQ rubber.

LS-51 2,2,2-Trifluoroethyl methacrylate CAS 352-87-4	Fluorinated monomer for weatherable coatings, optical fiber cladding and contact lenses.	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.181** Refractive index (nD25) **1.360–1.362**	
LS-52 1H,1H,2H,2H-Perfluorodecanethiol CAS 34143-74-3	Forms low-energy self-assembled monolayers on gold, silver and copper; chain transfer agent for fluoropolymers.	Purity (GC), % **98.0 min** Density (20 °C), g/cm³ **1.678 ± 0.005** Refractive index (nD25) **1.333 ± 0.005**	
LS-532 (3,3,3-Trifluoropropyl)dichloromethylsilane CAS 675-62-7	Chlorosilane intermediate for D3F, fluorosilicone fluids and FVMQ rubber bases.	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.28** Refractive index (nD25) **N.A**	
LS-533 [2-(Perfluorohexyl)ethyl]trichlorosilane CAS 78560-45-9	Forms low-energy self-assembled monolayers for soft lithography, nanoimprint mold release and microfluidics.	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.639** Refractive index (nD25) **1.351**	

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Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-651 1,3,5-Tris(3,3,3-trifluoropropyl)-1,3,5-trimethylcyclotrisiloxane CAS 2374-14-3	Ring-opening monomer for FVMQ fluorosilicone rubber and fluorosilicone fluids.	Purity (GC), % **99.8 min** Boiling Point **239℃**	
LS-E59 Triethoxy(3,3,4,4,5,5,6,6,6-nonafluorohexyl)silane CAS 102390-98-7	C4 fluoroalkyl silane for anti-fingerprint, easy-clean coatings on glass and stone.	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.241** Refractive index (nD25) **1.3502**	
LS-E513 1H,1H,2H,2H-Perfluorooctyltriethoxysilane CAS 51851-37-7	Fluorosilane for anti-fingerprint, easy-clean and anti-graffiti coatings. Comparable to*: Evonik Dynasylan F 8261	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **Approx. 1.330** Refractive index (nD25) **Approx. 1.344**	
LS-M513 1H,1H,2H,2H-Perfluorooctyltrimethoxysilane CAS 85857-16-5	Fluorosilane for anti-fingerprint, easy-clean and release coatings on glass.	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.453±0.005** Refractive index (nD25) **1.335±0.005**	
LS-E517 1H,1H,2H,2H-Perfluorodecyltriethoxysilane CAS 101947-16-4	C8 fluorosilane for anti-fingerprint glass, DWR textile and metal treatment. Comparable to*: Shin-Etsu KBE-7803	Purity (GC), % **98.0 min** Density (20 °C), g/cm³ **1.384±0.005** Refractive index (nD25) **1.3370–1.3470**	
LS-M517 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane CAS 83048-65-1	C8 fluoroalkyl silane for anti-fingerprint, release and microfluidic coatings. Comparable to*: Shin-Etsu KBM-7803	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.5±0.1** Refractive index (nD25) **Approx. 1.325**	
LS-M53 (3,3,3-Trifluoropropyl)trimethoxysilane CAS 429-60-7	Monomer for fluorosilicone fluids and FVMQ and a coupling agent for fluoropolymers. Comparable to*: Dow Z-6233 / OFS-6233, Shin-Etsu KBM-7103	Purity (GC), % **99.0 min** Density (20 °C), g/cm³ **1.142** Refractive index (nD25) **1.355±0.005**	

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Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-M59 Nonafluorohexyltrimethoxysilane CAS 85877-79-8	Short-chain C4 fluoroalkyl silane for anti-fingerprint coatings on displays and lenses. Comparable to*: Dow B3958	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.335** Refractive index (nD25) **1.3380**	
LS-M512 Dodecafluoroheptylpropyltrimethoxysilane CAS 1105578-57-1	Fluoroalkyl silane for mold release, easy-clean glass and textile finishing.	Purity (GC), % **95.0 min** Density (20 °C), g/cm³ **1.3±0.1** Boiling Point **271 °C**	
LS-M531 3,3,3-Trifluoropropylmethyldimethoxysilane CAS 358-67-8	Difunctional fluoroalkyl silane for fluorosilicone fluids and FVMQ rubber bases. Comparable to*: Shin-Etsu KBM-7102	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.089** Refractive index (nD25) **1.358**	

03 SILANE OLIGOMERS & WATERBORNE SILANES

Pre-condensed silanes with low volatility that release less alcohol during cure; the waterborne grades are VOC-free. Used as adhesion promoters, crosslinkers and water repellents.

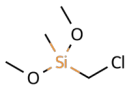
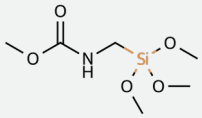
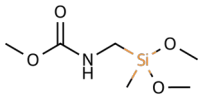
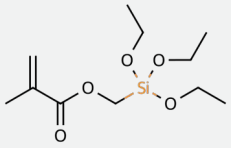
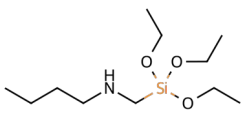
LS-O110 Amino Silane Oligomer CAS –	Waterborne amino silane oligomer; VOC-free adhesion promoter for waterborne coatings, glass fiber sizing, mineral wool and foundry binders. Comparable to*: Evonik Dynasylan HYDROSIL 1151	Density (25 °C), g/cm³ **1.06** Refractive index (nD25) **1.3690–1.3795** Flash Point **80°C Closed Cup**
LS-O146 Aqueous diaminofunctional silane hydrolysate CAS Mixture	Waterborne diamino silane oligomer; VOC-free adhesion promoter for waterborne coatings, MS and PU sealants, and fiber and filler sizing. Comparable to*: Evonik Dynasylan 1146	Density (20 °C), g/cm³ **1.06**
LS-O9832 Oligomeric N-Octyltriethoxysilane hydrolysate CAS –	Low-volatility, ethanol-releasing water repellent for concrete, brick and stone; also used for filler treatment.	Active content **High-purity oligomer** Density (25 °C), g/cm³ **Approx. 0.980–1.020** Refractive index (nD25) **1.4100–1.4300**
LS-O9831 Oligomeric N-Octyltrimethoxysilane hydrolysate CAS –	Penetrating water repellent for concrete, brick and stone and a hydrophobic additive for exterior paints.	Active content **High-purity oligomer** Density (25 °C), g/cm³ **Approx. 1.000** Refractive index (nD25) **1.4200–1.4400**

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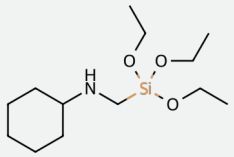
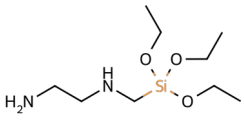
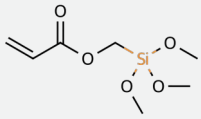
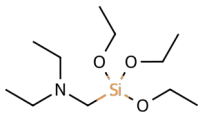
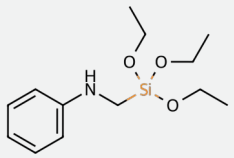
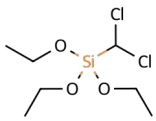
Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-OP121 Oligomeric Methylphenyldimethoxysilane hydrolysate CAS –	Low-VOC intermediate for high-RI LED encapsulant resins, high-temperature coatings and filler treatment.	Active content **High-purity oligomer** Density (25 °C), g/cm³ **1.060–1.100** Refractive index (nD25) **1.4900–1.5200**	
LS-OP200 Epoxy-functional siloxane oligomer CAS –	Low-VOC crosslinker and adhesion promoter for anti-corrosion primers, automotive finishes, adhesives and sealants. Comparable to*: Momentive CoatOSil MP 200	Density (25 °C), g/cm³ **1.130–1.170** Refractive index (nD25) **1.4450–1.4650** Flash Point (Closed Cup) **> 100°C**	

04 ALPHA SILANES

In alpha silanes the functional group sits on the carbon next to silicon (Si–CH_2–X), so the alkoxy groups hydrolyze much faster than in gamma silanes. Used in fast-curing silane-terminated polymers (SMP, SPUR), RTV silicones and as water scavengers.

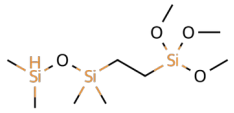
Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-8121 Chloromethyl(methyl)dimethoxysilane CAS 2212-11-5	Alpha-silane intermediate for alpha-functional silanes, modified siloxanes and grafting.	Purity (GC), % **≥97** Density (25 °C), g/cm³ **1.064** Refractive index (nD25) **1.4123**	
LS-AM31 (Methoxycarbonylaminomethyl) trimethoxysilane CAS 23432-64-6	Alpha-carbamate silane water scavenger for SMP, SPUR and PU sealants and coatings. Comparable to*: Wacker GENIOSIL XL 63	Purity (GC), % **97 min** Density (25 °C), g/cm³ **1.10–1.20** Refractive index (nD25) **1.400–1.430**	
LS-AM121 [(Methylcarbamato)methyl]dimethoxymethylsilane CAS 23432-65-7	Water scavenger and chain extender for low-modulus SMP, SPUR and polyurethane sealants. Comparable to*: Wacker GENIOSIL XL 65	Purity **≥95%** Density (20 °C), g/cm³ **1.05–1.15** Refractive index (nD25) **1.4300–1.4400**	
LS-ND174 Methacryloxymethyltriethoxysilane CAS 5577-72-0	Alpha-methacryl silane for RTV silicones, MS polymer sealants and UV/EB coatings. Comparable to*: Wacker GENIOSIL XL 36	Density (20 °C), g/cm³ **1.00** Refractive index (nD25) **1.4225** Boiling Point **65°C (2 mmHg)**	
LS-NDBA N-(Triethoxysilylmethyl)butylamine CAS –	Alpha secondary amino silane adhesion promoter for SMP, SPUR, RTV silicone and polyurethane sealants.	Purity (GC), % **95 min** Density (25 °C), g/cm³ **0.905–0.915** Refractive index (nD25) **1.409–1.419**	

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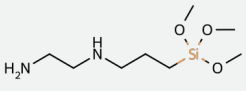
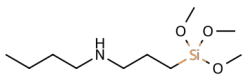
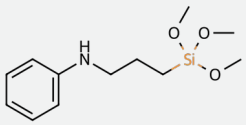
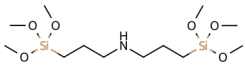
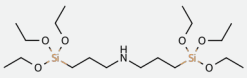
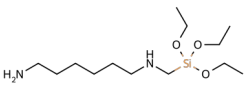
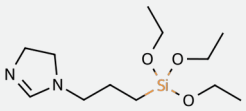
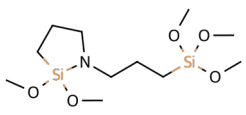
Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-NDCHA [(Triethoxysilyl)methyl]cyclohexylamine CAS 26495-91-0	Alpha-amino silane end-capper for SMP/SPUR polymers, RTV silicones and PU sealants. Comparable to*: Wacker GENIOSIL XL 926	Purity (GC), % **95 min** Density (25 °C), g/cm³ **0.95** Refractive index (nD25) **1.4377**	
LS-ND21 N-(2-Aminoethyl)aminomethyltriethoxysilane CAS –	Alpha diamino silane adhesion promoter for RTV silicones, SMP/SPUR sealants and primers.		
LS-MA131 Acryloyloxymethyltrimethoxysilane CAS 21134-38-3	Alpha-acrylate silane for UV/EB coatings, EPDM cable compounds and composites.	Purity (GC), % **97 min** Density (25 °C), g/cm³ **1.040–1.060** Refractive index (nD25) **1.4100–1.4300**	
LS-ND22 Diethylaminomethyltriethoxysilane CAS 15180-47-9	Alpha-tertiary amino silane crosslinker for RTV silicones, SMP/SPUR systems and FRP.	Purity **95% min** Density (20 °C), g/cm³ **0.916–0.933** Refractive index (nD25) **1.4000–1.4300**	
LS-ND42 (N-Phenylamino)methyltriethoxysilane CAS 3473-76-5	Alpha-silane adhesion promoter for silane-curing sealants, RTV silicones and FRP. Comparable to*: Wacker GENIOSIL XL 973	Purity **97% min** Density (20 °C), g/cm³ **1.030–1.050** Refractive index (nD25) **1.4800–1.4900**	
LS-ND43 Dichloromethyltriethoxysilane CAS 19369-03-0	Alpha-silane intermediate for alpha-functional silanes, modified siloxanes and resins.	Purity **95% min** Density (20 °C), g/cm³ **1.01–1.20** Refractive index (nD25) **1.4660–1.4870**	

05 AMINO SILANES & BIS-SILANES

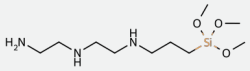
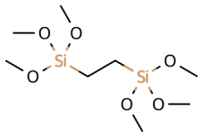
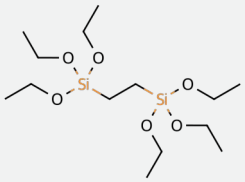
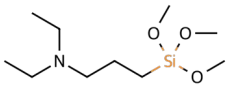
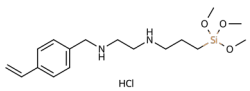
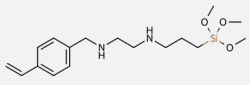
Primary, secondary and tertiary amino silanes and bis-silyl compounds for adhesion promotion, polymer end-capping, glass fiber sizing, filler treatment and chromium-free metal pretreatment.

Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-94322 1,1,3,3-Tetramethyl-1-[2'-(Trimethoxysilyl)Ethyl]-Disiloxane CAS 137407-65-9	Si–H functional hydrosilylation intermediate for silicone polyethers and silane-functional polymers.	Purity (GC), % **> 65** Boiling Point **218°C** Flash Point **125°C Closed Cup**	

* Comparable grades are given for orientation only; they do not mean identical composition or performance. Confirm suitability by testing.
Trademarks are the property of their respective owners.

Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-A112T N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, technical grade CAS 1760-24-3 (main component)	Coupling agent and adhesion promoter for foundry binders, coatings, glass fiber and fillers. Comparable to*: Evonik Dynasylan DAMO-T, Momentive Silquest A-1120 (Technical Grade)	Active content **85% min.** Density (25 °C), g/cm³ **Approx. 1.030** Refractive index (nD25) **1.4300–1.4800**	
LS-A431 (3-(Trimethoxysilyl)propyl)butylamine CAS 31024-56-3	Secondary amino silane for SPUR sealants, coatings, composites and filler treatment. Comparable to*: Momentive Silquest A-1189, Evonik Dynasylan 1189	Purity (GC), % **97 min** Density (20 °C), g/cm³ **0.947** Refractive index (nD25) **1.4246**	
LS-AB31 N-phenyl-3-aminopropyltrimethoxysilane CAS 3068-76-6	Phenylamino silane for adhesives, coatings, glass fiber sizing and foundry binders. Comparable to*: Momentive Y-9669, Dow Z-6083, Shin-Etsu KBM-573	Purity (GC), % **95.0 min** Density (20 °C), g/cm³ **1.070** Refractive index (nD25) **1.4960–1.5160**	
LS-AD31 Bis(trimethoxysilylpropyl)amine CAS 82985-35-1	Secondary bis-amino silane end-capper for SPUR and MS polymers, sealants and coatings. Comparable to*: Momentive Silquest A-1170, Evonik Dynasylan 1124	Purity (GC), % **95.0 min** Density (20 °C), g/cm³ **1.045** Refractive index (nD25) **1.429**	
LS-AD323 Bis(triethoxysilylpropyl)amine CAS 13497-18-2	Ethoxy bis-amino silane for SPUR end-capping, glass fiber sizing and HFFR fillers. Comparable to*: Evonik Dynasylan 1122, Momentive Silquest A-1172	Purity (GC), % **90.0 min** Density (20 °C), g/cm³ **0.9630–0.9830** Refractive index (nD25) **1.4250 ~ 1.4270**	
LS-AH13 (6-Aminohexyl)aminomethyltriethoxysilane CAS 15129-36-9	Flexible alpha-diamino silane for UV-curable, epoxy and filler treatment uses.	Purity (GC), % **97** Density (25 °C), g/cm³ **0.928** Refractive index (nD25) **1.4385**	
LS-AS32 [3-(triethoxysilyl)propyl]-4,5-dihydroimidazole CAS 58068-97-6	Imidazoline silane for epoxy adhesives, RTV sealants and metal primers.	Purity (GC), % **97** Density (25 °C), g/cm³ **1.005** Refractive index (nD25) **1.452**	
LS-AS213 2,2-Dimethoxy-1-[3-(trimethoxysilyl)propyl]-1-aza-2-silacyclopentane CAS 109084-60-8	Ring-opening silane end-capper and adhesion promoter for RTV silicones, SMP and polyurethane sealants.	Purity (GC), % **95**	

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Trademarks are the property of their respective owners.

Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-AV31 3-[2-(2-Aminoethylamino)ethylamino]propyl-trimethoxysilane CAS 35141-30-1	Coupling agent for phenolic, furan and epoxy composites, foundry binders, adhesives and glass fiber. Comparable to*: Momentive Silquest A-1130 / Y-5621, Evonik Dynasylan TRIAMO	Purity (GC), % **90.0 min** Density (20 °C), g/cm³ **1.0310 ± 0.005** Refractive index (nD25) **1.4585–1.4595**	
LS-D312 1,2-Bis(trimethoxysilyl)ethane CAS 18406-41-2	Bis-silyl crosslinker for Cr-free metal pretreatment, sol-gel coatings and sealants. Comparable to*: Momentive Y-9805	Purity (GC), % **97.0 min** Density (20 °C), g/cm³ **1.061–1.071** Refractive index (nD25) **1.4010–1.4110**	
LS-D322 1,2-Bis(triethoxysilyl)ethane CAS 16068-37-4	Bis-silane crosslinker for Cr-free metal pretreatment, sol-gel coatings and sealants. Comparable to*: Evonik Dynasylan BTSE	Purity (GC), % **95.0 min** Density (20 °C), g/cm³ **0.958** Refractive index (nD25) **Approx. 1.411**	
LS-DA111 [3-(Diethylamino)propyl]trimethoxysilane CAS 41051-80-3	Tertiary amino silane for neutral-cure RTV silicones, SPUR and MS polymers.	Purity (GC), % **95 min** Density (25 °C), g/cm³ **0.95** Refractive index (nD25) **1.4130–1.4330**	
LS-B6224 Partially hydrolyzed N-(vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane CAS –	Low-chloride, pre-hydrolyzed vinylbenzyl amino silane in methanol for fiberglass sizing, glass fabric finishing and PCB/CCL laminates.	Active content, % **40.0–45.0 (in Methanol)** Density (25 °C), g/cm³ **0.890–0.915** Flash Point (Closed Cup) **13°C**	
LS-B6032 N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane hydrochloride CAS 34937-00-3	Cationic vinylbenzyl amino silane hydrochloride, 40% in methanol, for glass fiber and silica filler treatment, PCB/CCL laminates and composites.	Active content **Approx. 40% in methanol** Density (25 °C), g/cm³ **0.905±0.005** Refractive index (nD25) **1.400±0.005**	
LS-B632 N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane CAS 171869-89-9	Neutral, low-chloride vinylbenzyl amino silane, 40% in methanol, for glass fiber treatment, silica fillers and PCB/CCL laminates.	Active content, % **Approx. 40 in methanol** Density (25 °C), g/cm³ **0.900–0.910** Refractive index (nD25) **1.3950–1.4050**	

* Comparable grades are given for orientation only; they do not mean identical composition or performance. Confirm suitability by testing.
Trademarks are the property of their respective owners.

Grade · Name · CAS	Description	Typical data (TDS)	Structure

06 CUSTOMIZED SILANES

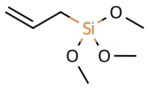
Specialty silanes made to customer specification, from allyl and acrylic silanes to silylating agents, TRIS methacrylate and PEG silanes. Further structures are made on request.

LS-AMS

Allyltrimethoxysilane
CAS 2551-83-9

Allyl silane for allylation reactions, Pt-cure silicone adhesion, polyolefin grafting and fillers.

Purity (GC), %
97.0 min
Density (25 °C), g/cm³
0.963
Refractive index (nD25)
1.405



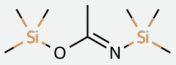
LS-BSA

N,O-Bis(trimethylsilyl)acetamide
CAS 10416-59-8

Silylating agent for GC/GC-MS derivatization and TMS protection in synthesis.

Comparable to*: Evonik Dynasylan BSA

Purity (GC), %
98.0 min
Density (20 °C), g/cm³
0.823
Refractive index (nD25)
1.4165–1.4185

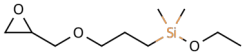


LS-GLYDME

(Glycidyloxy)propyldimethylethoxysilane
CAS 17963-04-1

Mono-alkoxy epoxy silane for surface silanization, filler treatment and epoxies.

Purity (GC), %
95 min
Density (25 °C), g/cm³
0.900–1.000
Refractive index (nD25)
1.4100–1.4500



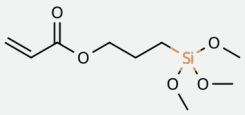
LS-M304

Acryloxypropyltrimethoxysilane
CAS 4369-14-6

Acrylic silane coupling agent for UV/EB coatings, fiber-optic coatings and composites.

Comparable to*: Shin-Etsu KBM-5103

Purity (GC), %
97
Density (25 °C), g/cm³
1.055
Refractive index (nD20)
1.429

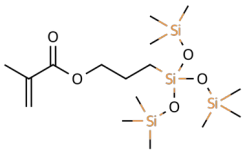


LS-OP594

3-[Tris(trimethylsiloxy)silyl]propyl methacrylate
CAS 17096-07-0

TRIS methacrylate monomer for silicone hydrogels and fouling-release coatings.

Purity (GC), %
97 min
Density (25 °C), g/cm³
0.910–0.930
Refractive index (nD25)
1.4150–1.4250



LS-PEG20

[Methoxy(polyethyleneoxy)6-9]propyltrimethoxysilane
CAS 65994-07-2

PEG silane (6–9 EO); hydrophilic surface modifier for particles, glass and anti-fog coatings.

Density (25 °C), g/cm³
1.060–1.080
Refractive index (nD25)
1.4450–1.4550
Flash Point
88°C Closed Cup

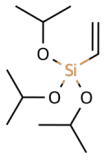
LS-VI33

Vinyltriisopropoxysilane
CAS 18023-33-1

Slow-hydrolyzing vinyl silane for 1K waterborne acrylic latices, paints and wood coatings.

Comparable to*: Momentive CoatOSil 1706, Dow Z-6550

Purity (GC), %
97.0 min
Density (25 °C), g/cm³
0.8650–0.8750
Refractive index (nD25)
1.3940–1.4040



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Grade · Name · CAS	Description	Typical data (TDS)	Structure

07 CROSSLINKERS, LATENT SILANES & CATALYSTS

Acetoxy, oxime and enoxy (isopropenoxy) crosslinkers for RTV silicone sealants, ketimine latent aminosilanes for 1K polyurethane and epoxy systems, and a metal-free guanidine silane catalyst.

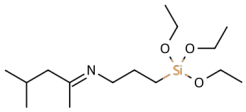
LS-AS332

(1,3-Dimethylbutylidene)aminopropyltriethoxysilane
CAS 116229-43-7

Latent aminosilane adhesion promoter for 1K polyurethane and epoxy adhesives, sealants and primers.

Comparable to*: Shin-Etsu KBE-9103

Purity (GC), %
98 min
Density (25 °C), g/cm³
0.93
Refractive index (nD25)
1.437

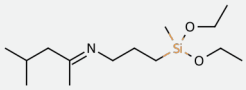


LS-AS312

(1,3-Dimethylbutylidene)aminopropylmethyldiethoxysilane
CAS –

Ketimine latent aminosilane that releases the amine with moisture; used in 1K PU and epoxy sealants and adhesives.

Purity (GC), %
95 min
Density (25 °C), g/cm³
0.93
Refractive index (nD25)
1.437

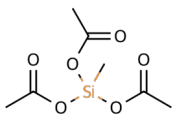


LS-AT102

Methyltriacetoxysilane
CAS 4253-34-3

Acetoxy crosslinker for 1K acetoxy-cure RTV silicone sealants and liquid crosslinker blends.

Active content, %
90.0 min.
Density (20 °C), g/cm³
1.12
Refractive index (nD25)
1.4000

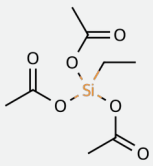


LS-AT402

Ethyltriacetoxysilane
CAS 17689-77-9

Liquid acetoxy crosslinker for acetoxy-cure RTV sealants and methyltriacetoxysilane blends.

Density (25 °C), g/cm³
1.140
Refractive index (nD25)
1.4120–1.4150
Boiling Point
107°C(at 12 mmHg)

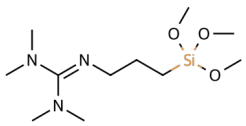


LS-GCF

1,1,3,3-Tetramethyl-2-(3-trimethoxysilylpropyl)guanidine
CAS 69709-01-9

Metal-free organobase silane for enoxy and neutral RTV silicones and adhesives.

Purity (GC), %
95.0 min
Density (20 °C), g/cm³
0.950–0.970
Refractive index (nD25)
Approx. 1.455

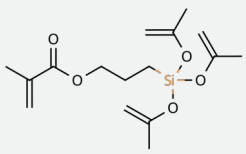


LS-MTIS

Methacryloxypropyltri(isopropenyloxy)silane
CAS 78051-94-2

UV/moisture dual-cure silane for coatings, adhesives and enoxy RTV silicones.

Purity (GC), %
97 min
Density (25 °C), g/cm³
0.987
Boiling Point
361.5°C

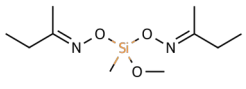


LS-MMOS

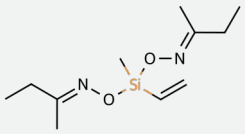
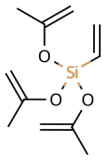
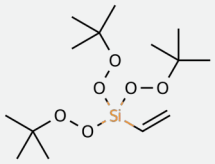
Methylmethoxybis(methyl ethyl ketoximino)silane
CAS –

Hybrid oxime-alkoxy crosslinker for neutral-cure RTV silicone sealants and potting compounds.

Purity (GC), %
95 min
Density (25 °C), g/cm³
0.96
Refractive index (nD25)
1.4450–1.4550

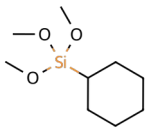
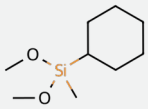
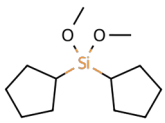
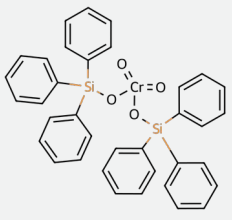


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Trademarks are the property of their respective owners.

Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-MVOS Vinylmethylbis(methylethylketoximino)silane CAS 72721-10-9	Bis-oxime chain extender for low-modulus neutral RTV sealants and stress-relief potting.	Purity (GC), % **97 min** Density (25 °C), g/cm³ **0.910–0.930** Refractive index (nD25) **1.4450–1.4550**	
LS-VIPS Vinyltriisopropenoxysilane CAS 15332-99-7	Enoxy crosslinker for de-acetone neutral RTV silicone sealants, coatings and potting.	Purity **97% min** Density (20 °C), g/cm³ **0.924** Refractive index (nD25) **1.4310–1.4410**	
LS-VTPS Vinyltris(tert-butylperoxy)silane CAS 15188-09-7	Supplied 40% in toluene; bonds peroxide-cured fluoroelastomer and polyacrylate rubber to metal.	Active content **40% in toluene solution** Density (25 °C), g/cm³ **0.905** Refractive index (nD25) **1.4575**	

08 POLYOLEFIN CATALYSTS & DONORS

Alkoxysilane external electron donors for Ziegler–Natta polypropylene catalysts and a chromium silyl ester precursor for polyethylene catalysts.

Grade · Name · CAS	Description	Typical data (TDS)	Structure
LS-CHTS Cyclohexyltrimethoxysilane CAS 17865-54-2	External electron donor in $MgCl_2$-supported Ziegler-Natta catalysts for isotactic PP.	Purity (GC), % **98.0 min** Density (25 °C), g/cm³ **1.010–1.030** Refractive index (nD25) **1.4270–1.4370**	
LS-CMMS Cyclohexylmethyldimethoxysilane CAS 17865-32-6	External electron donor for Ziegler-Natta catalysts in propylene polymerization. Comparable to*: Evonik Dynasylan 9407	Purity (GC), % **99 min** Density (25 °C), g/cm³ **0.945–0.950** Refractive index (nD25) **1.4360–1.4380**	
LS-DCPDMS Dicyclopentyldimethoxysilane CAS 126990-35-0	External donor for high-isotacticity PP in injection molding and BOPP film.	Purity **99% min** Density (20 °C), g/cm³ **0.99** Refractive index (nD25) **1.4580–1.4680**	
LS-PTCR Bis(triphenylsilyl)chromate CAS 1624-02-8	Cr(VI) precursor for supported chromium HDPE/LLDPE catalysts and a selective oxidizing agent.		

* Comparable grades are given for orientation only; they do not mean identical composition or performance. Confirm suitability by testing.

Trademarks are the property of their respective owners.

Grade · Name · CAS	Description	Typical data (TDS)	Structure

09 SILOXANES & SILAZANES

Disiloxanes, disilazanes, a vinyl cyclic and an Si–H trisiloxane used as end-cappers, silylating agents, inhibitors and intermediates in silicone production.

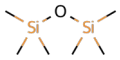
LS-610

Hexamethyldisiloxane

CAS 107-46-0

End-capper for silicone fluids, a PECVD SiO_2 precursor and a residue-free cleaning solvent.

Purity (GC), %
99.0 min
Density (20 °C), g/cm³
0.762–0.770
Refractive index (nD25)
1.375–1.379



LS-611

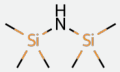
Hexamethyldisilazane (HMDS)

CAS 999-97-3

Silylating agent for photoresist adhesion, silica treatment in silicone rubber and API synthesis.

Comparable to*: Momentive A-166, Dow Z-6079, Evonik HMDS, Shin-Etsu HMDS3

Purity (GC), %
99.0 min
Density (20 °C), g/cm³
0.771–0.777
Refractive index (nD25)
1.406–1.410



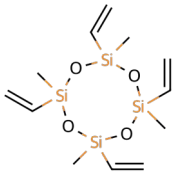
LS-624

2,4,6,8-Tetravinyl-2,4,6,8-tetramethylcyclotetrasiloxane

CAS 2554-06-5

Low-volatility inhibitor for addition-cure silicones and a vinyl monomer.

Purity (GC), %
98.0 min
Density (25 °C), g/cm³
0.997
Refractive index (nD25)
1.4300–1.4400



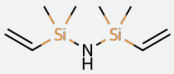
LS-623

1,3-Divinyltetramethyldisilazane

CAS 7691-02-3

Vinyl end-capper for LSR and HTV synthesis, photoresist primer and silica treating agent.

Purity (GC), %
98.0 min
Density (20 °C), g/cm³
0.819
Refractive index (nD25)
1.437–1.439



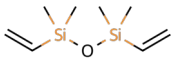
LS-622

Divinyltetramethyldisiloxane

CAS 2627-95-4

Pot-life inhibitor for addition-cure silicones and a ligand for Karstedt's catalyst.

Purity (GC), %
99.0 min
Density (20 °C), g/cm³
0.818
Refractive index (nD25)
1.4080–1.4180



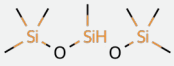
LS-673

1,1,1,3,5,5,5-Heptamethyltrisiloxane

CAS 1873-88-7

Si–H intermediate for trisiloxane superspreaders, PU foam stabilizers and silicone wetting agents.

Purity
99% min
Density (20 °C), g/cm³
0.819
Refractive index (nD25)
1.382



* Comparable grades are given for orientation only; they do not mean identical composition or performance. Confirm suitability by testing.
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GRADE INDEX

All grades in this brochure in order of grade code, with CAS number and page.

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LS-AB31	3068-76-6	23
LS-AD31	82985-35-1	23
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LS-CMMS	17865-32-6	27
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PACKAGING, STORAGE AND SUPPORT

Packaging	Typical packs are 20–25 kg pails, 150–210 kg drums and 800–1,000 kg IBCs; samples in 0.1–1 kg bottles. The packaging of each grade is given in its TDS.
Storage	Keep containers tightly closed in a cool, dry, well-ventilated place, away from moisture, heat and direct sunlight. Most alkoxysilanes hydrolyze in contact with moisture; chlorosilanes and acetoxy silanes release HCl or acetic acid. Follow the storage conditions and shelf life in the TDS and SDS.
Documents	TDS, SDS and COA are available for every grade on request.
Customized silanes	Silfluo makes silanes, siloxanes and silazanes to customer structure and specification, from laboratory samples to production quantities. For many custom products we recommend 1 kg: every separate run costs about the same, so 100 g costs almost as much as 1 kg. Custom orders are paid in advance, because a custom product often cannot be sold to a second customer; if a product we have agreed to make does not meet the requirements when it leaves our laboratory, we refund promptly. These terms apply to custom products only; standard grades can be ordered in any quantity.

TO SELECT A GRADE, PLEASE TELL US

01 Which polymer or resin system and which substrate or filler is the silane for?

02 Which function is needed: adhesion, crosslinking, end-capping, water repellency or surface treatment?

03 Methoxy or ethoxy grade, and are there limits on released methanol or VOC?

04 Required purity, packaging and annual quantity?



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