



EXPLORE

sensorial silicones

silicones portfolio

innospeco ▶

# EXPLORE

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## sensorial silicones

Hello and welcome to our latest product catalogue. This catalogue enables you to explore our ingredients for sensorial silicones. In a world that demands uniqueness, efficacy and sustainability, our ingredients provide endless opportunities to help you stand out from the crowd. Combine our market expertise and technical knowledge, we have the right blend of science and creativity to capture your needs to develop your next silicone formulation.

Sensorial silicones from Innospec offers a diverse range of specialty products that are developed and customized to meet the demanding requirements of customers' unique applications. Innospec offers custom manufacturing of silicone compositions with additives such as actives and fragrances. Our purpose-built anhydrous blending facility affords an economical route to fully customized solutions even on a small batch basis. Innospec is committed to continual innovation and developing products that contribute to a more sustainable future. Whether you are looking for a flawless, matte skin finish, increase of hair shine or a practical, thermal protection solution, you can be sure the Innospec Sensorial Silicones range will have what you are looking for.

Join our journey to a more sustainable future with Innospec Sensorial Silicones. Transform the ordinary into something special, explore our products today.  
[personalcare@innospecinc.com](mailto:personalcare@innospecinc.com)  
[www.innospec.com/personal-care/silicones](http://www.innospec.com/personal-care/silicones)

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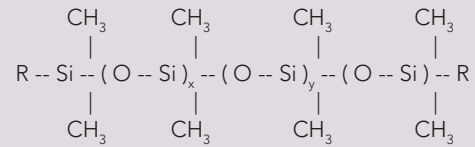


## Intro to Silicones




see and feel the difference

Silicones are a polymer made up of siloxane (-R2Si-O-SiR2-) where R is an organic group. They are typically colorless oils or rubber-like substances. Silicones are used in various personal care applications: lotions, oils, lubricants, anti-perspirants, etc.



To help guide you through our product range we have suggested which Application of our products can be used for:

- Application key:
-  Color Cosmetics
  -  Antiperspirant
  -  Sun
  -  Hair
  -  Skin

## Benefits of Silicones

Benefits of Silicones	Features
LOW TOXICITY	Personal care silicones are generally safe and non-toxic.
THERMAL STABILITY	Constancy of properties over a wide temperature range of -100 to 250 °C
SUPERIOR AESTHETICS	Silicone fluids provide ideal skin and hair care properties: nonabrasive, good spreading (low surface tension), detackification, lubricity, and resistance to creasing and wrinkling.
FLEXIBILITY	Silicone's chemistry, differences in bond angle, bond length, and bond energy, result in a more flexible, fluid molecule. This molecular flexibility provides collectively more unique benefits than organic esters/oils.
PROTECTION	Silicones range in viscosity, typically 0.65 cSt to > 1,000,000 cSt, which provides varying advantages/benefits depending on the application. The FDA considers dimethicone silicones to be a skin protectant as long as the viscosity is between 20 cSt to 12,000 cSt. The higher the viscosity, the better the protection. Why? Silicones naturally spread on surfaces, so the higher the viscosity, the lower the spreading and the longer it stays in place.

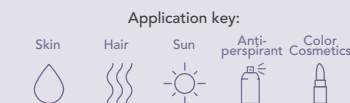


## Silicone Fluid Compounds



Trade Name	INCI Name	Application	Diluent	Viscosity (cP)	Refractive Index	Appearance	Features
COSMETIC FLUID 0515-OH	Dimethicone (and) Dimethiconol		DM	5000	1.3960	Clear, colorless viscous liquid	Popular ingredient for dry skin in daily care and sun care protection. High viscosity skin emollient widely used in skin slip application. Smooth feeling and non-tacky.
COSMETIC FLUID 1406-DM	Dimethicone		DM	2700	1.3991	Clear, colorless viscous liquid	Excellent emollient with skin protecting properties. Offers water resistance to skin lotions and creams. Cyclic free compound.
COSMETIC FLUID 1406-OH	Dimethicone (and) Dimethiconol		DM	2000	1.3975	Clear, colorless viscous liquid	Silicone skin emollient with water resistance properties. Smooth application. Can be incorporated in sunscreens for added water resistance and dry skin reduction.
COSMETIC FLUID 1486-DM	Cyclopentasiloxane (and) Dimethicone		D5	4500	1.3979	Clear, colorless viscous liquid	Widely used silicone polymer compound for hair care serums and treatment products.
COSMETIC FLUID 1585-OH HV	Cyclopentasiloxane (and) Dimethiconol		D5	5000	1.3979	Clear, colorless viscous liquid	Widely used silicone polymer compound. Excellent in shine products, treatment serums and hair conditioners.
COSMETIC FLUID 1585-OH	Cyclopentasiloxane (and) Dimethiconol		D5	7000	1.3979	Clear, colorless viscous liquid	Widely used silicone polymer compound. Excellent in shine products, treatment, serums and hair conditioners.
COSMETIC FLUID 2006-OH	Dimethicone (and) Dimethiconol		DM	600	1.4010	Clear, colorless viscous liquid	Unique blend of ultra high viscosity polymer in a dimethicone base. Improves substantivity and aesthetics of emulsions, gels, emollients and sticks. Used in a wide range of skin care applications.
COSMETIC FLUID 3569-DM	Cyclopentasiloxane (and) Dimethicone		D5	250	1.3970	Clear, colorless viscous liquid	Lubricious, non-greasy silicone serum. Excellent skin lubricity without tackiness.
COSMETIC FLUID 8108-OH	Dimethicone (and) Dimethiconol (and) Trisiloxane		DM/TS	200	1.3900	Clear, colorless viscous liquid	Volatile delivery system for various skin care applications. Maintains excellent playtime and dries to a matte finish.
COSMETIC FLUID 8503-HALS	Cyclopentasiloxane (and) Dimethiconol (and) Propoxytetramethyl Piperidinyl Dimethicone		D5	1600	1.3013	Clear, colorless viscous liquid	Moisture activated hair repair serum. Creates softness, shine and overall healthy hair with patented free radical scavenging technology.

## Silicone Gelling Agents

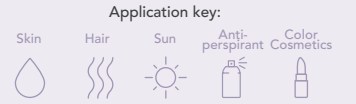


Trade Name	INCI Name	Application	Diluent	Viscosity (cP)	NVC % (non-volatile content)	Refractive Index	Specific Gravity	Appearance	Features
GELAID® 8205	Cyclopentasiloxane (and) Dimethicone		D5	11500	18.0	1.3971	0.958	Clear, colorless viscous liquid	Used as base for hair shine products or micro-emulsion gel laminators. High solids shine serum. Provides quick volatility.
GELAID® CPDP	Cyclopentasiloxane (and) Dimethicone (and) Phenyl Trimethicone		D5	5000	18.0	1.4019	0.960	Clear, colorless viscous liquid	Specifically designed gelling ingredient for formulating clear refractive index products. Provides high gloss and heat protection for non-chemical hair straighteners.
GELAID® CPDP-CF	Dimethicone (and) Phenyl Trimethicone		DM	4800	20.0	1.4000	0.890	Clear, colorless viscous liquid	Formulated product specifically designed for making clear refractive index gel products. It provides high gloss and protection to the hair from thermal treatments such as blow drying.
GELAID® CPE	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Hydroxyethyl Acrylate / Sodium Acryloyl Dimethyl Taurate Copolymer		D5/D6	25000	9.5	N/A	0.960	Opaque Paste	Pre-emulsified gelling agent that creates luxurious creams and lotions. Specifically developed for cold mix process. Multi-phasic properties permit functional oil and water based active ingredients to be incorporated.
GELAID® CPE-CF	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Hydroxyethyl Acrylate / Sodium Acryloyl Dimethyl Taurate Copolymer		DM	62000	92.0	N/A	0.770	Opaque Paste	Version of GELAID® CPE. Same properties with elimination of cyclopentasiloxane for formulas requiring cyclic-free raw materials.

## Macro-Emulsions & Surfactants

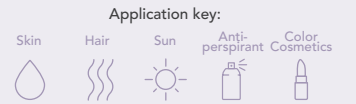
Trade Name	INCI Name	Application	Diluent	NVC % (non-volatile content)	Emulsion/Emulsifier Type	Appearance	Features
EMULSIL® CC-40	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride		Water	35.0	Cationic macro	Off-white to white emulsion	Strong cationic emulsion and organic quaternary combination for rinse-off or leave-in conditioners. Non-animal derived cationic quat and non-tallow surfactants.
EMULSIL® CC-49	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12		Water	35.0	Cationic macro	Off-white to white emulsion	Highly engineered cationic emulsion with a small controlled particle size to improve deposition of actives on the hair fiber. Leads to improved wet and dry combing as well as hair softness. Self preserved and less than 0.1% Cyclotetrasiloxane.

Macro-Emulsions & Surfactants cont



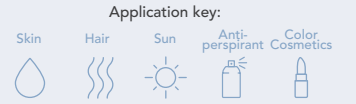
Trade Name	INCI Name	Application	Diluent		NVC % (non-volatile content)	Emulsion/ Emulsifier Type	Appearance	Features
EMULSIL® CC-69	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12		Water		35	Cationic macro	Off-white to white emulsion	Highly engineered cationic emulsion with a small controlled particle size to improve deposition of actives on the hair fiber. Leads to improved wet and dry combing as well as hair softness. Less than 0.1% of each D4, D5 and D6. Self preserved.
EMULSIL® CT-50	Dimethiconol (and) TEA-Dodecylbenzenesulfanate		Water		50	Anionic	Off-white to white emulsion	50% active emulsion of high molecular weight OH functional silicone polymer. Can be used in haircare applications and shower gels.
EMULSIL® S-290	Cetyl PEG/PPG-10/1 Dimethicone		N/A		98	Non-ionic	Clear to slightly hazy liquid	Alkyl Dimethicone copolyol silicone emulsifier which is ideally suited to produce elegant W/O creams and lotions but without the greasiness and heaviness of typical water-in-oil systems. The combination of alkyl and PEG groups on the silicone backbone lead to a HLB value of 3.
EMULSIL® S-393	PEG-12 Dimethicone		N/A		98	Non-ionic	Clear to hazy slight amber liquid	Water dispersible silicone copolyol surfactant used as plasticizer and solubilizer in cosmetic systems.
EMULSIL® S-397	PEG-10 Dimethicone		N/A		95	Non-ionic	Clear, colorless to light straw liquid	Water dispersible silicone copolyol surfactant used as plasticizer and solubilizer in cosmetic systems.
EMULSIL® S-399	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone		N/A		98	Non-ionic	Clear to slightly hazy liquid	100% active, odorless water-in-silicone and water-in-oil emulsifier. Oil and silicone dispersible branched silicone glycol copolymer.
EMULSIL® WO-5115	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone		D5		10	Non-ionic	Translucent liquid	Widely used in water-in-oil emulsifier / surfactant system. Base diluent is cyclopentasiloxane. Excellent delivery system for sunscreens, anti-perspirant actives and pigments.
EMULSIL® WO-5116	Dimethicone (and) PEG/PPG-18/18 Dimethiconol		DM		10	Non-ionic	Translucent liquid	Cyclic-free silicone, widely used in water-in-oil emulsifier/surfactant system. Base diluent is cyclopentasiloxane. Excellent delivery system for sunscreens, anti-perspirant actives and pigments.
EMULSIL® 610	Polyglyceryl-3 Polymethylsiloxyethyl Dimethicones		N/A		100	Non-ionic	Clear, colorless liquid	Cyclic / PEG free co-emulsifier used in conjunction with EMULSIL® 710. Provides emulsion stability and controls the water-break feature of EMULSIL® 710.
EMULSIL® 615	Lauryl Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone		N/A		100	Non-ionic	Clear, colorless liquid	Cyclic / PEG free co-emulsifier used in conjunction with EMULSIL® 830. Provides emulsion stability and controls the water-break feature of EMULSIL® 830.

Macro-Emulsions & Surfactants cont



Trade Name	INCI Name	Application	Diluent		NVC % (non-volatile content)	Emulsion/ Emulsifier Type	Appearance	Features
EMULSIL® 710	Dimethicone (and) Polyglycerin-3 Crosspolymer		DM		100	Non-ionic	Clear to slightly hazy gel	EMULSIL® 710 is a 20% active blend containing a PEG and cyclic-free crosspolymer in a dimethicone carrier fluid, which produces stable Water-in-Silicone emulsions. Emulsions created with this emulsifier have excellent water-holding ability and can be used to prepare emulsions that give a soft, rich feel. In addition, EMULSIL® 710 allows formulator to develop lotions, creams and gels with unique transforming textures that are achieved by controlling the water-break feature of the emulsion when using the appropriate level of the co-emulsifier EMULSIL® 610 to provide emulsion stability and to control the desired level the water-break feature of EMULSIL® 710.
EMULSIL® 830	Triethylhexanoin (and) Lauryl Dimethicone/ Polyglycerin-3 Crosspolymer		TEH		100	Non-ionic	Clear to slightly hazy liquid	EMULSIL® 830 is a 20% active blend containing a PEG and cyclic-free crosspolymer in a triethylhexanoin carrier fluid, which produces stable Water-in-Silicone emulsions. Emulsions created with this emulsifier have excellent water-holding ability and can be used to prepare emulsions that give a soft, rich feel. In addition, EMULSIL® 830 allows formulator to develop lotions, creams and gels with unique transforming textures that are achieved by controlling the water-break feature of the emulsion by using the appropriate level of the co-emulsifier EMULSIL® 615 to obtain stability and to control the water-break feature of EMULSIL® 830.

## Micro Emulsions



Trade Name	INCI Name	Application	Diluent		NVC % (non-volatile content)	Emulsion Type	Appearance	Features
MICROSIL® 8170	Amodimethicone (and) C11-15 Alketh-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12		Water		25	Non-ionic	Slightly Hazy Liquid	Aminodimethicone microemulsion. An excellent conditioning additive for a wide range of water based hair products including rinse-off and leave-in conditioners, 2-in-1 shampoos and hair styling products. Consistent small particle size ensures stability in final formulations. Contains less than 0.1% of each D4, D5, & D6.
MICROSIL® FINISH	Propoxytetramethyl Piperidiny Dimethicone (and) Cetrimonium Chloride (and) Cetrimonium Bromide (and) Trideceth-6 (and) C11-15 Alketh-7		Water		30	Cationic	Slightly Hazy Liquid	Clear 30% aqueous cationic microemulsion containing a balanced combination of hindered amine functional silicone polymers and cationic organic quaternium salts. This versatile cationic complex was developed as a premium conditioning additive for formulating clear or opaque conditioners, Rinse-off and leave-in hair treatment products, and styling aids. Provides excellent wet and dry combing, pronounced hair highlights, softness, shine and hair volume. Typical use levels are 2 to 5%.
MICROSIL® VOLUME	Propoxytetramethyl Piperidiny Dimethicone (and) Cetrimonium Chloride (and) Trideceth-6 (and) C11-15 Alketh-7		Water		30	Cationic	Slightly Hazy Liquid	30% active cationic micro emulsion containing a patented cationic hindered amine functional silicone polymer combined with a cationic organic quaternium salt. This versatile cationic complex was developed to provide increased hair volume.
MICROSIL® HAF-MV30	Propoxytetramethyl Piperidiny Dimethicone (and) Trideceth-6 (and) C11-15 Alketh-7		Water		30	Non-ionic	Slightly Hazy Liquid	Clear microemulsion containing a medium molecular weight hindered amine functional silicone in water that provides superior wet and dry combing, hair softness and shine.



## Specialty Products for Unique Applications



Trade Name	INCI Name	Application	Diluent	Silicone Active %	Appearance	Features
Specsil K-10	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer		NA	100	White powder	K-10 is a hybrid silicone polymer created by coating spherical particles of a silicone rubber coated with a silicone resin, giving them a smooth application feel. K-10 has an average particle size of 5 microns and provides an excellent "Soft Focus" effect that helps conceal wrinkles, pores and other small skin imperfections.
Specsil K-11	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer		NA	100	White powder	K-11 is a hybrid silicone polymer created by coating spherical particles of a silicone rubber coated with a silicone resin, giving them a smooth application feel. K-11 has an average particle size of 2 microns and provides an excellent "Soft Focus" effect that helps conceal wrinkles, pores and other small skin imperfections.
Specsil K-12	Dimethicone (and) Dimethicone PEG-10/15 Crosspolymer		DM	100	Colorless, translucent paste	Water-in-silicone emulsifier/surfactant incorporates crosspolymer for luxurious skin feel. Can be used in conjunction with EMULSIL® S-397 to obtain stability. Elegant water-break emulsions can be achieved depending on the level of EMULSIL® S-397.
Specsil K-13	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer		D5	10	Clear to translucent gel	High solids clear elastomer gel. Good thickening capability and suspension with large particles. Provides elegant skin feel leaving matte finish on skin. Formulates excellent silky soft crème base.
Specsil K-17	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer		DM	25	Clear to translucent gel	Silicone gel with volatile dimethicone carrier. Leaves a long lasting, silky, elegant skin feel. Useful thickening agent for various oils.
Specsil K-19	Cyclopentasiloxane (and) Dimethicone Crosspolymer		D5	100	Crystal clear to slightly hazy gel	Elastomer gel. Good thickening capability for suspension of larger particles. Provides an elegant skin feel leaving a matte finish on the skin.
Specsil K-45	Cyclopentasiloxane (and) Acrylates/Dimethicone Copolymer		D5	70	Translucent to slightly hazy gel	Provides long lasting, soft, flexible film with excellent water and oil repellency. Uses include long lasting color cosmetics and water resistant sunscreens.
Specsil K-50	Isododecane (and) Acrylates/Dimethicone Copolymer		IDD	30	Colorless, transparent gel	Same acrylate-silicone copolymer used in K-45 for long lasting wear but utilizes isododecane as diluent. Cyclic silicone free.

## Specialty Products for Unique Applications cont



Trade Name	INCI Name	Application	Diluent	Viscosity (cP)	Active Silicone Content %	Refractive Index	Specific Gravity	Appearance	Features
Specsil K-51	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer		D5	NA	100	1.3980	NA	Clear to translucent gel	Popular clear elastomer gel compound with a luxuriously dry after-feel. Leaves a matte finish on skin with a talc like after-feel. Used in skin care preparations. Volatile cyclic diluents for fast dry time.
Specsil K-56	Diphenylsiloxy Phenyl Trimethicone		NA	15	100	1.4900	1.000	Clear, colorless liquid	Used extensively in hair care and lipcare products for superior shine due to high refractive index. Light, greaseless after feel on hair and skin.
Specsil K-57	Phenyl Trimethicone		NA	20	100	1.4900	0.98	Clear, colorless liquid	Used extensively in hair care products for superior shine due to high refractive index. Light, greaseless after feel on hair and skin. Provides gloss to lipcare products.
Specsil K-71	Trimethylsiloxysilicate		NA	NA	100	NA	NA	White powder	Easy to disperse, 100% silicone resin. Provides durable transfer and wash off resistance.
Specsil K-73	Cyclopentasiloxane (and) Trimethylsiloxysilicate		D5	200	50	1.4050	NA	Clear, colorless liquid	Standard blend of Cyclopentasiloxane and Trimethylsiloxysilicate.
Specsil K-79	Dimethicone (and) Trimethylsiloxysilicate		DM	700	100	1.4100	1.000	Crystal clear to slightly hazy viscous liquid	Silicone resin in a dimethicone carrier formulated to have a target viscosity of 700 cSt.
Specsil K-80 S	Dimethicone and Trimethylsiloxysilicate		DM	350	48	1.4200	0.950	Clear slightly viscous liquid	Specsil K-80 S is a quick drying, clear flexible film former based on a unique blend of Trimethylsiloxysilicate, Dimethicone and Trisiloxane. This breathable film former is used to provide resistance against water, wash-off, transfer, and sebum.
Specsil K-92	Trimethylsiloxysilicate (and) Isododecane (and) Diphenylsiloxy Phenyl Trimethicone		IDD	< 75	53	1.4150	0.950	Clear thin liquid	Specsil K-92 is a moderate drying, clear flexible film former based on a unique composition containing a blend of Trimethylsiloxysilicate, Isododecane and Diphenylsiloxy Phenyl Dimethicone. This breathable film former is the product of choice for providing water resistance in a continuous spray sunscreens.
Specsil SPD	Dimethicone/Vinyl Dimethicone Crosspolymer		Water	NA	50	NA	NA	60% aqueous dispersion	Dispersion of two micron silicone powders. Excellent line filler, absorbs sebum. Leaves silky, talc-like feel when incorporated in skin care products.

## Volatile Fluids



Trade Name	INCI Name	Application	Viscosity (cSt)	Appearance	Features
Volasil® DM-0.65	Disiloxane		0.65	Clear, colorless liquid	The most volatile silicone fluid. Low odour and toxicity. Perfect for applications where dry time is important. VOC free, great solvency with other ingredients.
Volasil® DM-1	Trisiloxane		1.00	Clear, colorless liquid	Linear low molecular weight silicone. Used where volatility is key without cyclic silicones.
Volasil® DM-1.5	Dimethicone		1.50	Clear, colorless liquid	Linear low molecular weight silicone. Used where volatility is key without cyclic silicones.
Volasil® DM-2	Dimethicone		2.00	Clear, colorless liquid	Linear low molecular weight silicone. Used where volatility is key without cyclic silicones.
Volasil® 990	Cyclopentasiloxane		4.00	Clear, colorless liquid	Cyclopentasiloxane with a guaranteed Cyclotetrasiloxane level of less than 0.1%.
Volasil® 995	Cyclopentasiloxane		4.00	Clear, colorless liquid	Cyclic silicone. Most widely used in all personal care applications including deodorants, anti-perspirants, skin care, sun care, hair sprays, colour cosmetics and hair conditioners.
Volasil® 996	Cyclohexasiloxane (and) Cyclopentasiloxane		6.00	Clear, colorless liquid	Volatile, low viscosity silicone fluid. Improves personal care products through enhanced spreading and lubrication properties. Also used in cleansing products.
Volasil® 7525	Cyclopentasiloxane (and) Cyclohexasiloxane		6.00	Clear, colorless liquid	Specialty blend of Volasil® 995 and Volasil® 996 for longer dwell times to a dry finish.

## Dimethyl Fluids, Dimethicone, Dimethyl & Amino Functional

Full range of Dimethicone products available from 5 cSt to 150,000 cSt



Trade Name	INCI Name	Application	Viscosity (cSt)		Specific Gravity	Appearance	Features
Dimethisil® DM-5	Dimethicone		5		0.916	Clear, thin liquid	Makes excellent emollients for skin care applications. Leaves a light and greaseless after-feel.
Dimethisil® DM-50	Dimethicone		50		0.960	Clear, thin liquid	Excellent light lubricity in skin applications. Can provide added gloss in hair care products. Used to prevent whitening when spreading stearate based creams and lotions.
Dimethisil® DM-12,500	Dimethicone		12500		0.975	Clear, viscous liquid	Used to provide added gloss and shine in hair care shampoos and conditioners.

## Hindered Amine Silicone Fluids

Trade Name	INCI Name	Application	Viscosity (cSt)		NVC % (non-volatile content)	Refractive Index	Amine Content (meq/100g)	Appearance	Features
Dimethisil® HNH-LV	Propoxytetramethyl Piperidinyl Dimethicone		250		98	1.4090	3780	Clear liquid	Moisture activated cationic modified silicone fluid. Enables clear conditioning shampoos and body washes.
Dimethisil® HNH-MV	Propoxytetramethyl Piperidinyl Dimethicone		10000		98	1.4082	2500	Clear liquid	Water activated cationic modified silicone fluid. Improves wet and dry comb, adds softness to hair.
Dimethisil® HNH-HV	Propoxytetramethyl Piperidinyl Dimethicone		90000		98	1.4076	2500	Clear liquid	Water activated cationic modified silicone fluid. Substantive to hair and skin.

## Shine Enhancers



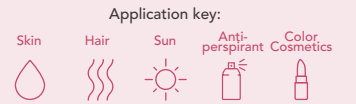
Trade Name	INCI Name	Application	Diluent	Viscosity (cP)	Refractive Index	Appearance	Features
Shineblend® 8220G	C13-14 Isoalkane (and) Dimethiconol		C13-14 Isoalkane	6000	1.4300	Clear, colorless viscous liquid	Non-volatile replacement for Cosmetic Fluid 1585-OH, VOC free.
Shineblend® 8020G	C13-14 Isoparaffin (and) Cyclopentasiloxane		D5	3.5	1.4500	Clear, colorless liquid	Economical shine enhancer for pump spray applications. Can be used as the base formula and modified with additional functional or marketing raw materials.
Shineblend® 9503	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Dimethiconol (and) PEG-10 Dimethicone		D5	5	1.4000	Clear, colorless liquid	Balanced combination containing Dimethicone / Vinyl Dimethicone Crosspolymer, Dimethiconol and PEG-10 Dimethicone to provide a high degree of hair shine.
Shineblend® TR	C13-14 Isoparaffin (and) Cyclopentasiloxane		D5	3	1.4180	Clear, colorless liquid	Most economical of the Shineblend® series used in pump spray applications.

## Frizz Control

Trade Name	INCI Name	Application	Diluent	Viscosity (cP)	Active Content %	Refractive Index	Appearance	Features
Frizzblend® MAX	Cyclopentasiloxane (and) Propoxytetramethyl Piperidinyl Dimethicone		D5	3500	50	1.4000	Clear, colorless viscous liquid	A blend of hindered amine functional silicone polymer delivered in a volatile carrier. It provides excellent high humidity frizz control, curl definition and accentuates natural hair structure to have long lasting curl memory. Ideal for use in frizz control serums and sprays.
Frizzblend® MAX-CF	Propoxytetramethyl Piperidinyl Dimethicone (and) Dimethicone (and) Isododecane		DM / IDD	1500	50	1.4000	Clear, colorless viscous liquid	Cyclic-free version of Frizzblend® MAX.
Frizzblend® 3999	Cyclopentasiloxane (and) Propoxytetramethyl Piperidinyl Dimethicone (and) Dimethicone		D5	1500	5	1.4000	Clear, colorless viscous liquid	Ready to use, high frizz control serum blend that provides excellent high humidity frizz control and curl definition. Ideal for use in frizz control serums.

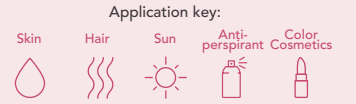


## Cyclic-Silicone Replacements



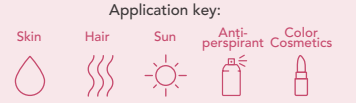
Trade Name	INCI Name	Application	Viscosity (cP)		Silicone Content %	Refractive Index	Specific Gravity	Appearance	Features
InnoSil 044	Dimethicone (and) C10-11 Isoparaffin (and) Trisiloxane		2.5		51	1.3800	0.79	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes and Isoparaffins that provides comparable volatility to a 90/10 composition of cyclotetrasiloxane and cyclopentasiloxane.
InnoSil 045	Dimethicone (and) C11-12 Isoparaffin		4.2		51	1.3800	0.791	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes and isoparaffins that provides comparable cyclopentasiloxane volatility.
InnoSil 904	Dimethicone (and) Trisiloxane		2		100	1.3800	0.84	Clear, colorless liquid	Cyclic-free composition containing a balanced combination of polydimethylsiloxanes that provides comparable cyclotetrasiloxane volatility. Useful in the development of antiperspirants, cosmetic stick products, and other applications where high volatility and faster dry down time is desired.
InnoSil 905	Dimethicone		4.2		100	1.3900	0.79	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes that provides comparable cyclopentasiloxane volatility.
InnoSil 910	Dimethicone (and) Trisiloxane		2		100	1.4000	0.86	Clear, colorless liquid	Cyclic-free and VOC free composition of polydimethylsiloxanes that provides an initial volatility comparable to cyclopentasiloxane, with a faster overall volatility. Excellent delivery vehicle for products that a slightly extend rub in time but overall a slightly faster drying time.
InnoSil 915	Dimethicone (and) C11-13 Isoalkane		4		54	1.4000	0.79	Clear, colorless liquid	Cyclic-free combination of polydimethylsiloxanes and isoalkanes that provides volatility comparable to cyclopentasiloxane.
InnoSil 925	Dimethicone (and) Isoalkane		4.2		95	1.400	0.83	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes and isoalkanes that provides comparable volatility to a 90/10 composition of cyclotetrasiloxane and cyclopentasiloxane.
InnoSil 935	Dimethicone (and) Isoalkane		4.2		70	1.400	0.83	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes and isoalkanes that provides comparable volatility to a 90/10 composition of cyclotetrasiloxane and cyclopentasiloxane.
InnoSil 955	Dimethicone (and) Isoalkane		4.2		51	1.410	0.08	Clear, colorless liquid	Cyclic-free balanced combination of polydimethylsiloxanes and isoalkanes that provides comparable volatility to a 90/10 composition of cyclotetrasiloxane and cyclopentasiloxane.

## Cyclic-Silicone Replacements cont



Trade Name	INCI Name	Application	Viscosity (cP)	Silicone Content %	Refractive Index	Specific Gravity	Appearance	Features
InnoSil 1481-DM	Dimethicone (and) Isododecane (and) Trisiloxane		4000	94	1.4000	0.870	Clear, colorless liquid	Cyclic-free composition of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethicone fluid. InnoSil 1481-DM has comparable volatility and application aesthetics as Cosmetic Fluid 1486-DM.
InnoSil 1483-DM	Dimethicone		4000	100	1.4000	0.880	Clear, colorless liquid	Cyclic-free, Isododecane free composition consisting of polydimethyl siloxanes, Isoalkanes and an ultra-high molecular weight dimethicone fluid. InnoSil 1881-DM has similar volatility and application aesthetics as Cosmetic Fluid 1486-DM
InnoSil 1486-DM	Dimethicone (and) Isododecane (and) Trisiloxane		4000	81	1.4000	0.880	Clear, colorless liquid	Cyclic-free composition of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethicone fluid. InnoSil 1486-DM has comparable volatility and application aesthetics as Cosmetic Fluid 1486-DM.
InnoSil 1580-OH	Dimethicone (and) Isododecane		4000	94	1.4000	0.880	Clear, colorless liquid	Cyclic-Free composition comprised of polydimethylsiloxanes, isododecane, trisiloxane and an ultra-high molecular weight dimethiconol fluid. InnoSil 1580-OH has comparable volatility and application aesthetics as Cosmetic Fluid 1585-OH.
InnoSil 1585-OH	Dimethicone (and) Isododecane (and) Dimethiconol		4000	74	1.4000	0.880	Clear, colorless liquid	Cyclic-free composition of polydimethylsiloxanes, isododecane, and an ultra-high molecular weight dimethiconol fluid. InnoSil 1585-OH has comparable volatility and application aesthetics as Cosmetic Fluid 1585-OH.
InnoSil 1881-DM	Dimethicone (and) C11-13 Isoalkane		4000	94	1.4000	0.880	Clear, colorless liquid	Cyclic-free composition of polydimethylsiloxanes, and an ultra-high molecular weight dimethiconol fluid. InnoSil 1883-OH has comparable volatility and application aesthetics as Cosmetic Fluid 1585-OH.
InnoSil 1883-OH	Dimethicone		4000	100	1.4000	0.880	Clear, colorless liquid	Cyclic-free, Isoalkane free composition consisting of polydimethyl siloxanes, Isoalkanes and an ultra-high molecular weight dimethicone fluid. InnoSil 1881-DM has similar volatility and application aesthetics as Cosmetic Fluid 1486-DM

## Cyclic-Silicone Replacements cont



Trade Name	INCI Name	Application	Viscosity (cP)		Silicone Content %	Refractive Index	Specific Gravity	Appearance	Features
InnoSil 1885-OH	C11-13 Isoalkane (and) Dimethicone (and) Dimethiconol		4000		51	1.4000	0.880	Clear, colorless liquid	Cyclic-free free composition consisting of polydimethyl siloxanes, Isoalkanes and an ultra-high molecular weight dimethicone fluid. InnoSil 1881-DM has similar volatility and application aesthetics as Cosmetic Fluid 1486-DM
InnoSil 1886-DM	Dimethicone (and) C11-13 Isoalkane		4000		51	1.4000	0.880	Clear, colorless liquid	Cyclic-free free composition consisting of polydimethyl siloxanes, Isoalkanes and an ultra-high molecular weight dimethicone fluid. InnoSil 1881-DM has similar volatility and application aesthetics as Cosmetic Fluid 1486-DM
InnoSil 8106	Trisiloxane (and) Dimethicone		13000		100	1.4000	0.850	Clear, colorless liquid	Cyclic-free blend of Trimethicone and an ultra-high molecular weight Dimethicone use to thicken serum formulation and provide a smooth silky feel to hair and skin.
InnoSil 8308	Dimethicone (and) Isododecane		3700		83	1.4000	0.860	Clear, colorless liquid	Cyclic-free blend of volatile polydimethylsiloxanes, Isododecane and an ultra-high molecular weight dimethiconol fluid that is used as a ready-to-use serum formulation.





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