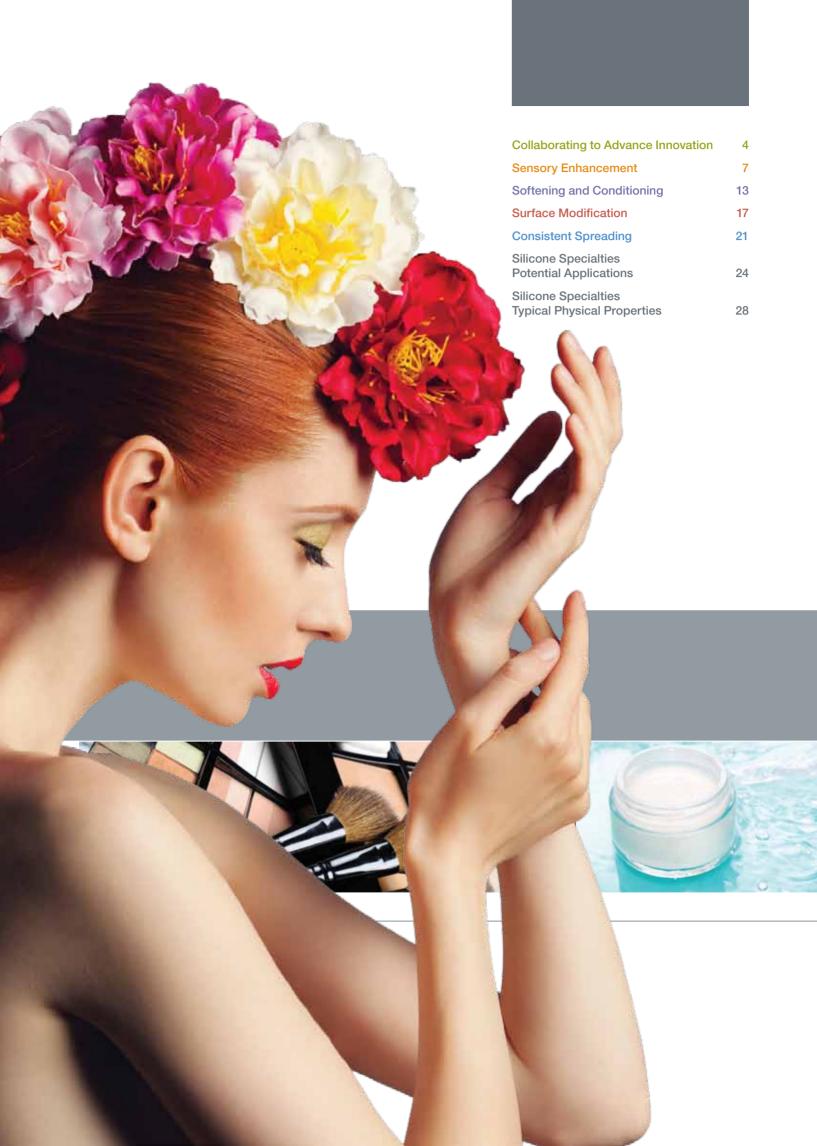


Momentive products can help create silkier lotions, more efficient shampoos and conditioners, drier antiperspirants, more spreadable sunscreens and brighter, smoother cosmetics. Our growing personal care product line includes specialty fluids, copolymers, blends, gels, film formers, micropowders, emulsions and dispersions. Our highly effective formula for client relationships includes: superb products, enthusiastic technical support and application development assistance, based on more than 70 years of silicone expertise. Globally, we can help customers create breakthroughs, reduce costs and achieve their business goals.



Core Competencies and
Differentiated Technologies
for Personal Care

Sensory Enhancement

Softening and Conditioning

Surface Modification

Consistent Spreading

Collaborating to Advance Innovation

At Momentive, we have a number of core competencies that can allow us to deliver consumer-perceivable benefits and support key marketing claims for personal care products. These include:

- Sensory enhancement to provide the "WOW" feel to finished formulations
- Softening and conditioning to give hair that silky, soft feel and healthy look
- Surface modification to impart transfer resistance, long wear with comfort, shine and protection
- Consistent spreading and wetting to improve dispersion of pigments and spreading of active ingredients and organic oils





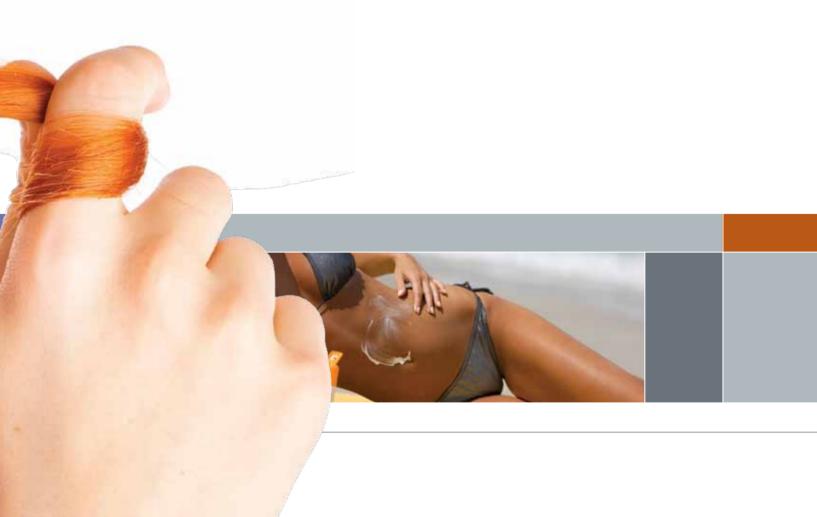




Sense

Touching is Believing

There is a silky softness offered by our specialty silicones that can be hard to achieve using other materials. In makeup, creams, lotions, shampoos, conditioners and styling products, we put the "WOW" right there on your fingertips. It may put an end to tacky formulations that can take forever to smooth and dry. Our specialty silicones typically work quickly, for a softness all our own.



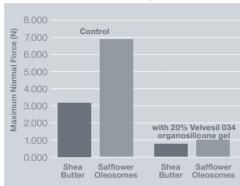
8 Overview: Velvesil* Crosspolymer Network

Velvesil organosilicone gels are based on a patented and unique silicone crosspolymer network that can deliver outstanding sensory benefits in most types of skin care and color formulations.

Velvesil 034 Organosilicone

Velvesil 034 organosilicone gel is an excellent candidate to consider to help disperse and spread cosmetic ingredients without tackiness. It can help spread inorganic pigments, deliver brighter and more uniform color in makeup formulations and provide more uniform coverage in sunscreens. It has excellent compatibility with many organic materials, enhancing the sensory benefit and stability of a wide range of personal care products.

Tack Reduction of Natural Ingredients



Velvesil DM Silicone

Velvesil DM silicone can promote easier spreading on the skin, leaving an exquisite, long-lasting, moisturizing and silky feel and enhanced sensory qualities for skin care products and color cosmetics. This patented multifunctional silicone copolymer network is non-emulsifying, dispersed in dimethicone, and formed in a creamy, transparent gel. It exhibits shear-thinning behavior, typically allowing smoother, more consistent spreading of anti-aging, sunscreen and moisturizer products.

Velvesil Plus Emulsifiable Gel

Velvesil Plus emulsifiable gel readily offers excellent compatibility with many organic materials, including highly polar organics, as well as hydrophilic and silicone components. Its powdery, silky skin feel may enhance the sensory performance of a wide range of personal care products. Easily processed at low temperatures and low shear, it may help reduce manufacturing time and expense. This versatile product is an excellent candidate to consider for formulations, from low viscosity, sprayable emulsions to highly structured anhydrous gels, all with a soft, elegant, powdery feel.



Velvesil 125 silicone can deliver a line blurring effect and a unique, soft, powdery dry skin feel to cosmetics. Velvesil Plus emulsifiable gel is typically easy to use for formulations and may help reduce manufacturing time and cost while still helping to improve the sensory experience for your customer. **Velvesil Platform Benefits Balling** Drag

Silkiness

Ease of Spreading

Velvesil* FX Gel Powder

Velvesil FX gel powder can enhance natural-look coverage with a delightful sensory phenomenon. It combines the translucent soft-focus ability of boron nitride with the powdery velvet touch of our patented Velvesil chemistry. Adding a trisiloxane typically improves the dispersion of boron nitride within the gel matrix, for a more natural, smoother appearance on skin. This patent-pending combination may stimulate the senses while it helps blur fine lines and wrinkles.

Velvesil 125 Silicone

Velvesil 125 silicone crosspolymer network is our patented multifunctional sensory enhancer. It offers an exceptional feel during rub-in because of its unique particle size distribution, and it offers a silky and powdery afterfeel. Its polymerization chemistry differs from the traditional "silicone structurants." It typically provides soft focus and visual effects and gives skin a fresh new feel. Velvesil 125 silicone crosspolymer network is an excellent candidate to consider for a multitude of formulation applications. Formulators have found it to be an efficient thickener of silicone and organic ingredients, with excellent compatibility. It can be used as a stabilizer/ thickener for W/O and O/W emulsions.

Silsoft* Silicone Gel

Silsoft Silicone gel is a crosslinked, high molecular weight silicone network that spreads evenly and quickly for a silky, cushioning feel. It offers significantly reduced balling effect normally associated with elastomer gels. The addition of crystal clear Silsoft Silicone gel can improve the sensory aesthetics of formulations when organic oils or sunscreens cause tackiness. Silsoft Silicone gel can be added easily into the oil phase of a formulation and can withstand heat and high shear, generally without the need for post homogenization.

Velvesil DM Silicone Velvesil 125 Silicone

Greasiness

Note: Test results. Actual results may vary.

2

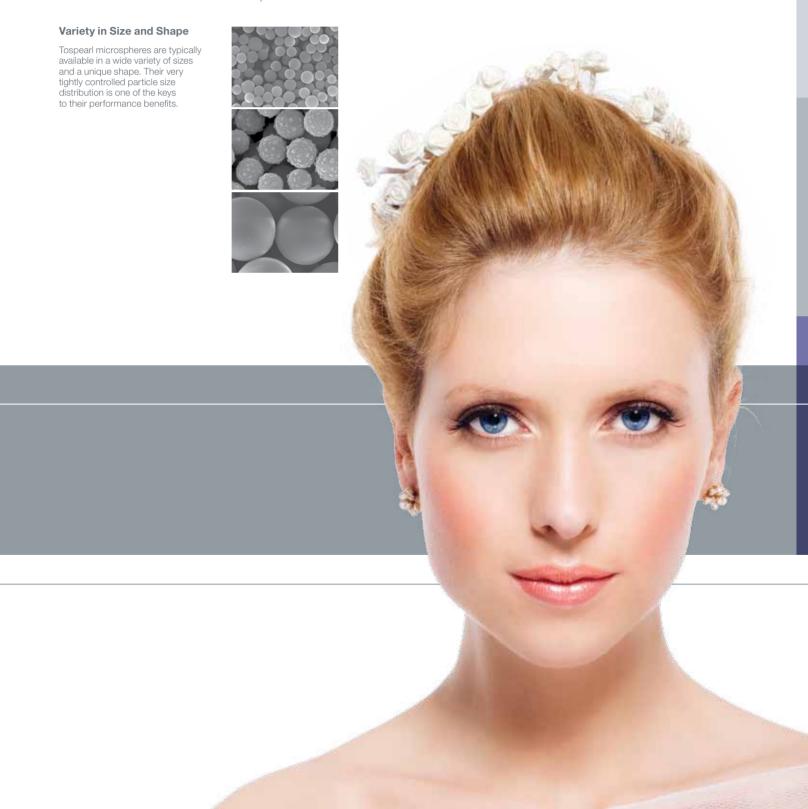
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Overview: Tospearl* Microspheres

Tospearl microspheres can impart a luxurious and lubricious feel to a variety of creams, lotions and color cosmetics. This series is comprised of mono-dispersed, micro-fine spherical crosslinked siloxane particles. Each grade has a specific particle size to deliver precise qualities and can typically reduce pressed-powder agglomeration. Tospearl microspheres can improve the spreadability of creams and enhance soft focus effects, to help minimize fine lines and wrinkles.

Tospearl AQ Microspheres

Tospearl AQ microspheres are silicone spheres coated with a hydrophilic cationic polymer. These microspheres can be incorporated easily into oil-in-water emulsions to help provide a smooth and silky sensory experience. In addition, Tospearl AQ microspheres can help create formulas that enhance the blurring of fine lines and wrinkles and improve rub-in of skin care formulations.



Tospearl* and Momentive Softouch* Comparative Benefits





Silsoft* E-Pearl Emulsion

Silsoft E-Pearl emulsion is uniquely versatile and multifunctional, and an excellent candidate to consider for addition to the water phase of a variety of personal care products, from facial masks to body washes and sun care products. Consumers typically experience a rich sensory feel while benefiting from line blurring and skin lightening. It is a patent-pending, non-ionic emulsion of polymethylsilsesquioxane powder, high molecular weight dimethicone and an alkyl-functionalized polysiloxane. It is very easy to use in formulations and may even be post-added to existing ones. You may achieve unique sensory qualities in skin care products with high water content, even more than 90% water.

Momentive Softouch Boron Nitride (BN) Powder

Momentive Softouch BN powder can create a wide range of tactile and optical effects, including a unique, silky, luxurious feel in color cosmetic and skin care products, with improved adhesion and wear. Testing demonstrated that Momentive Softouch BN powder could significantly enhance many cosmetic products with soft-focus properties and non-transfer characteristics—the result of its layered, hexagonal-crystal structure.

Momentive Softouch Boron Nitride: Soft Focus to Lubricious





Note: Test results. Actual results may vary.



Touch

Feel the Difference

Healthy hair should be soft, full and shiny, not heavy or greasy. Traditional silicones offer great conditioning, but lack the multifunctionality of our specialty materials. Our growing portfolio of [AB]_n amino copolymers soften each strand, like a softener on silk, so hair is easier to comb, wet or dry. Our amino "quats" cover every hair shaft with a protective, conditioning film, trapping moisture within, for longer lasting softness and manageability. Create a touchable feel and a thrilling shine that makes your consumers take notice.

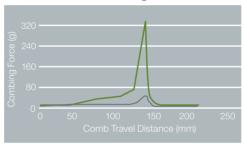


Silsoft* Q PF Quaternary Silicone

Silsoft Q PF quat silicone is a 20% active microemulsion of a proprietary silicone quat that can help deliver volume and amazing softness, as well as conditioning, to fine hair. The unique phase behavior of the silicone quat with water relates to the lubricity of Silsoft Q PF quat silicone during wet combing and its exceptional softening performance benefits. Silsoft Q PF quat silicone is an excellent ingredient to consider for shampoos, conditioners and pre-treatment products aimed at providing volume and softness to fine hair.

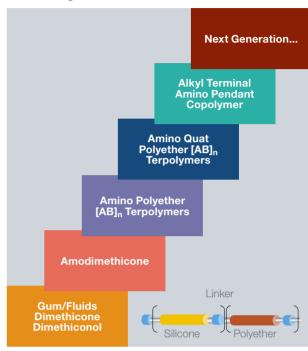
Silsoft Q PF quat silicone can significantly reduce peak combing force.

Reduction in Peak Combing Force



Amino Silsoft Q PF silicone

Conditioning for Hair Care



Hair softening and conditioning: the history of platform innovation and differentiated technologies for consumer needs, by Momentive.



Note: Test results. Actual results may vary.



How Does It Work?

Silicone film on hair fiber

Key properties

- Substantive; hydrophobic
- Continuous film
- Low thermal conductivity

Typical function

- Rinse-resistance
- Lower rate of water loss
- Even distribution of heat
- Modulated rate of temperature increase

Potential end benefits

- Smooth; soft feel
- Moisturized hair
- No localized damage
- Less damage to cortex
- Hair is less brittle

Silicone droplets on hair fiber

Key properties

Substantive; small size droplets

Typical function

- Rinse-resistance
- Penetration under uplifted cuticles
- Slowed water loss from hair
- Heat-sink and hydrogen bonding

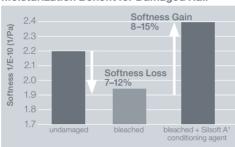
Potential end benefits

- Smooth; soft feel
- Good physical condition

Silsoft* A+ Conditioning Agent

Silsoft A+ conditioning agent can help provide excellent conditioning to damaged hair. It is a surfactant-free emulsion of an amino [AB]_n multiblock copolymer silicone with an optimal hydrophilic/hydrophobic balance. Compared to traditional amino silicones, Silsoft A+ conditioning agent typically has enhanced deposition onto damaged hair, therefore offering better performance at the same actives levels, with potential cost-saving benefits.

Silsoft A⁺ Conditioning Agent Moisturization Benefit for Damaged Hair

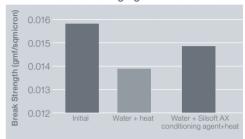




Silsoft AX Conditioning Agent

Silsoft AX conditioning agent is an alkyl modified amino fluid that can help formulas deliver superior smoothness and shine, even when hair dries. The combination of both pendant amino and terminal alkyl groups on the silicone structure helps provide enhanced smoothness, softness and manageability, with thermal protection.

Silsoft AX Conditioning Agent: Thermal Protection







Shine





Stay Flexible

Sometimes beauty is just on the surface: by forming a film on skin or hair, you can formulate personal care products with real staying power—and less transfer. Our specialty silicones can also enhance the sensory qualities of the film. Now you can enjoy long lasting wear, with comfort. You can use a film former as a surface modifier to improve water resistance and boost the performance of sunscreens.





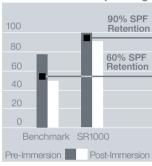
Enhance



Keep Curl; Less Frizz Silsoft Style Commer silicone 6% Benchm

Silsoft Style silicone can reduce frizz caused by high humidity and can help maintain curl memory.

In-Vitro SPF: Water-proofing



The addition of SR1000 can boost SPF values and water resistance.

Silsoft* Style Silicone

Silsoft Style silicone can give hair long lasting, well-defined curls with a flexible natural feel in high humidity situations. An anionic film-forming emulsion of silica crosslinked polydimethylsiloxane, blended with a trisiloxane, it typically spreads rapidly with low tack and dries quickly.

SR1000

SR1000 is a silicone MQ resin that has demonstrated post-immersion in-vitro SPF retention ranging from 50% to 90%. SR1000 offers adhesion to skin, reduced product wash-off and provides long lasting benefits.

SilForm* Flexible Resin

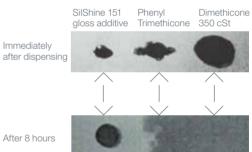
SilForm Flexible resin can give the unusual combination of comfort and long-lasting wearability in personal care formulations. SilForm Flexible resin is a film-forming silicone MT resin that mimics the movement of skin, for a comfortable, non-tight feel. It can offer the non-transfer properties that are typically associated with silicone resins and that are especially beneficial for color cosmetics and sun protection formulations. SilForm Flexible resin can also help improve the comfort of traditional MQ resins, without significantly impacting their excellent transfer resistance.

Silsoft SurFace PF Film Former 19

Silsoft SurFace PF organosilicone is a proprietary film-forming emulsion combining non-transfer capabilities with excellent feel and water resistance. It can improve wearability in foundation, mascara and lipstick. Based on an acrylated silicone copolymer that is emulsion-polymerized, it can produce a stable silicone-in-water emulsion with a highly crosslinked silicone matrix. When dry, the emulsion typically leaves a continuous silicone film that is an effective transfer barrier.

SilShine* 151 Gloss Additive

SilShine 151 gloss additive is a silicone film former that can bring visually perceivable high shine to lips and hair. It offers highrefractive index, non-volatility, non-migration and organic compatibility. Its silicone resin structure typically yields excellent filmforming properties. Its phenyl functionality is compatible with most organic emollients, without sacrificing compatibility with silicones.

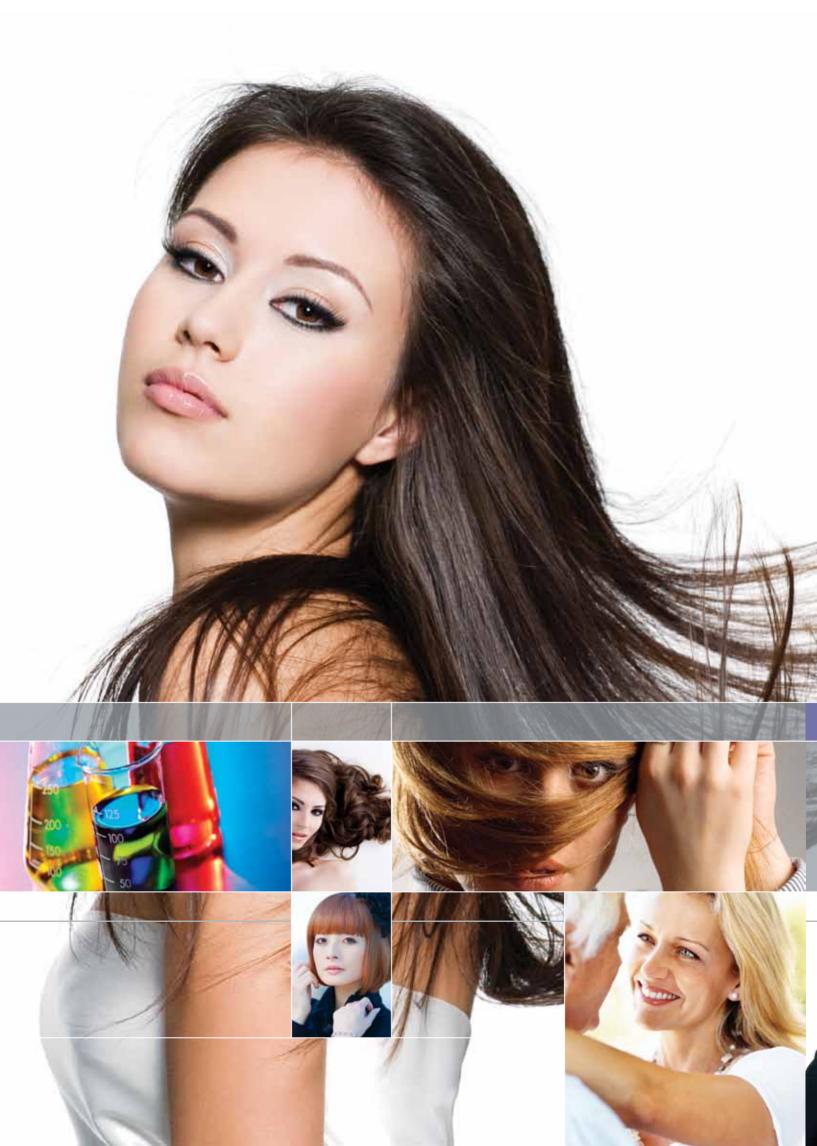


SilShine 151 gloss additive migrates less than phenyl trimethicone and dimethicone.



Note: Test results. Actual results may vary.







Be Flawless

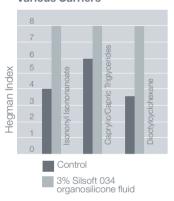
Flawless. That's the look. How do you make sure a pigment spreads evenly in a foundation? Reduce surface tension, so active ingredients can spread rapidly on the skin or down each individual hair. Choose from a wide range of dimethicone copolyols, alkyl trisiloxanes and organomodified siloxane copolymers to deliver the benefits you seek within different phases. Their multi-functionality can help you reduce production time and enhance product application properties.



Overview: Silsoft* Dimethicone Copolyols

Silsoft dimethicone copolyols are multifunctional, surface-tension-reducing molecules. The dimethicone portion can deliver excellent conditioning and gloss in hair care products and remarkable sensory qualities in skin care formulations. The polyether component typically results in emulsification properties, differentiated solubility and compatibility, plus ease of use during processing. By modifying these two portions of the molecular structure independently, a range of materials can be created, resulting in diverse foaming, solubility, emulsification, pigment dispersion and wetting benefits.

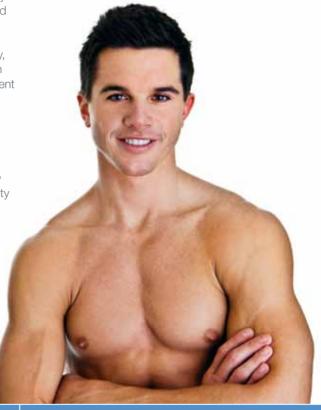
TiO₂ Dispersibility in Various Carriers



Silsoft 034 organosilicone fluid can help boost SPF values by spreading active ingredients evenly and quickly.

Silsoft 034 Organosilicone Fluid

Silsoft 034 organosilicone fluid can help modify the feel and improve the spreadability of a variety of cosmetic oils. Now formulations that contain vegetable oils, cosmetic esters, petrolatum or mineral oil can feel less greasy. Silsoft 034 organosilicone fluid is an excellent candidate to consider for skin care products, providing a silky afterfeel. It can allow oil to spread more effectively throughout the formulation, so lotions and creams require less rub-in time. In color cosmetic formulations, Silsoft 034 organosilicone fluid can offer a silky afterfeel and can significantly improve the dispersibility of inorganic pigments in formulations that contain organic oils.









Smooth

Consistent Spreading



The addition of a Silsoft dimethicone copolyol to a formulation can improve spreading for an easier, smoother application of personal care products.

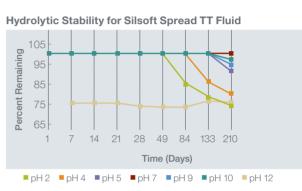
Silsoft* ETS Trisiloxane

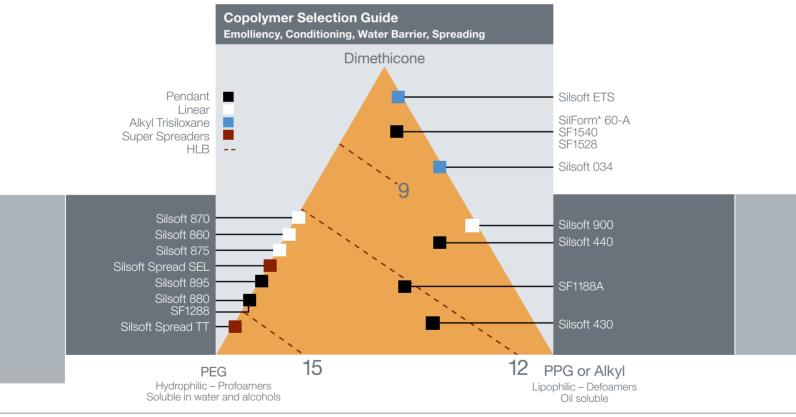
Silsoft ETS trisiloxane is a highly volatile linear siloxane that provides an outstanding sensory experience. It spreads easily and rapidly and feels dry and light upon application. Silsoft ETS trisiloxane, as a multifunctional raw material, can help build personal care products that provide highly valued sensory benefits.

Silsoft Spread SEL and Silsoft Spread TT Fluids

Silsoft Spread SEL fluid is a non-ionic organomodified siloxane copolymer and Silsoft Spread TT fluid is a non-ionic organomodified silane copolymer. These products can reduce the surface tension of personal care formulations, providing the superspreading of actives and inorganic pigments on skin and hair. Silsoft Spread SEL fluid is typically stable in the aqueous phase from pH 6 to pH 11, while Silsoft Spread TT fluid is typically stable in the aqueous phase from pH 2 to pH 12.







Each corner of the triangle either represents 100% Dimethicone, 100% PEG or 100% PPG or Alkyl. The properties of a product can be estimated depending upon its position within the selector triangle, relative to the corners.

Note: Test results. Actual results may vary

24 SiliconeSpecialties forPersonal Care

Potential Applications

Product Category	INCI Nama
and Product Name Silicone Structurants/Sensory Enhance	INCI Name
Velvesil* 034 organosilicone gel	Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Velvesil FX gel powder	Cyclopentasiloxane (and) Boron Nitride (and) Caprylyl Methicone (and)
	C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Velvesil Plus gel	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Vehreeit DM eilieene	(and) PEG/PPG-20/23 Dimethicone Dimethicone (and) Cetearyl Dimethicone Crosspolymer
Velvesil DM silicone Velvesil 125 crosspolymer network	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Silsoft* Silicone gel	Cyclopentasiloxane (and) Cetearyl Dimethicone/Vinyl Dimethicone
	Crosspolymer
SFE839	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer
Silicone Spheres	
Tospearl* AQ microspheres	Polymethylsilsesquioxane (and) Polyquaternium-7 (and) PEG-7 Glyceryl Cocoate (and) Methylsilanol Tri-PEG-8 Glyceryl Cocoate
Tospearl 150KA microspheres	Polymethylsilsesquioxane
Tospearl 1110A microspheres	Polymethylsilsesquioxane
Silsoft E-Pearl emulsion	Polymethylsilsesquioxane (and) Dimethicone (and) Isohexadecane (and) PEG-40 Stearate (and) Cetearyl Methicone (and) Steareth-2 (and) Steareth-21
Tospearl 120A microspheres	Polymethylsilsesquioxane
Tospearl 145A microspheres	Polymethylsilsesquioxane
Tospearl 2000B microspheres	Polymethylsilsesquioxane
Tospearl 3000A microspheres	Polymethylsilsesquioxane
Boron Nitride Momentive Softouch* CCS402 (BN) powder	Boron Nitride
Momentive Softouch CC6097 (BN) powder	Boron Nitride
Momentive Softouch CC6064 (BN) powder	Boron Nitride (and) Dimethicone
Momentive Softouch CCS102 (BN) powder	Boron Nitride
Momentive Softouch CC6004 (BN) powder	Boron Nitride
Momentive Softouch CC6058 (BN) powder	Boron Nitride
Momentive Softouch CC6059 (BN) powder	Boron Nitride
Momentive Softouch CC6069 (BN) powder	Boron Nitride
Silicone Resins SilForm* Flexible resin	Polymethylsilsesquioxane
SR1000	Trimethylsiloxysilicate
SS4230	Cyclopentasiloxane (and) Trimethylsiloxysilicate
SS4267	Dimethicone (and) Trimethylsiloxysilicate
Silsoft FR-5 fluid	Trifluoropropyldimethylsiloxy/Trimethylsiloxy Silsesquioxane (and) Dimethicone
SilForm FR-10 fluid	Trifluoropropyldimethylsiloxy/Trimethylsiloxy Silsesquioxane (and) Dimethicone
Silsoft Style silicone	Silica Dimethicone Silylate (and) TEA Dodecylbenzenesulfonate (and) PEG/PPG-5/3 Trisiloxane
Silicone Emulsifiers	
SF1528	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone
SF1540	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone
SilForm EOF emulsifier	Polysilicone-25
SilForm 60-A emulsifier	PEG/PPG-20/15 Dimethicone (and) Diisopropyl Adipate
Silicone Waxes	Out on I Maliferen
SF1632	Cetearyl Methicone
SF1642	C30-45 Alkyl Dimethicone
Note: A full line of basic cilicopes is available, including	oile volatiles gums and various blands

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Creams	Gels	Roll-ons	Pump Sprays	Sticks/Solids	Eye Shadow	Mascara	Foundation	Lip Products	Powders	Shampoo	Conditioner	Styling Products	Relaxers	Shampoo	Conditioner	Curl Activators	Cuticle Coats	Waxes/Pomades	Mousse	Pump Spray	Shampoo	Conditioner	Developers	Pre/After-Shave Lotion	Shaving Foam	Liquid Soap	Shower Gel	Shower Conditioner	Body Care	Facial Care	Sunscreen
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SiliconeSpecialties forPersonal Care

Potential Applications

Product Category	
and Product Name	INCI Name
Alkyl Silicones	
Silsoft* ETS trisiloxane	Ethyl Trisiloxane
Silsoft 034 organosilicone fluid	Caprylyl Methicone
Silicone Polyacrylate Emulsion	
Silsoft SurFace PF film former	Dimethicone PEG-8 Polyacrylate
Silicone Quats	
Silsoft Q PF cationic aminosilicone terpolymer	Water (and) Silicone Quaternium-18 (and) Trideceth-6 (and) Trideceth-12
Silsoft Care quat blend	Cyclopentasiloxane (and) Silicone Quaternium-18
Phenyl Modified Fluids	
SF1550	Phenyltrimethicone
SF1555	Bisphenylpropyl Dimethicone
SilShine* 151 gloss additive	Phenylpropyldimethylsiloxysilicate
Aminofunctional Silicones/Amodimet	thicone
Silsoft A+ conditioning agent	PEG-40/PPG-8 Methylaminopropyl/Hydroxypropyl Dimethicone Copolymer
Silsoft AX conditioning agent	Bis-Cetearyl Amodimethicone
Silsoft AX-E conditioning agent	Bis-Cetearyl Amodimethicone (and) Ceteareth-7 (and) Ceteareth-25(1)
SF1708	Amodimethicone
Silsoft A-843 copolymer	Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone
Silsoft Tone color retaining conditioning agent	Polysilicone-18 Cetyl Phosphate
Aminofunctional Emulsions	
Silsoft EMU 8110-N emulsion	Water (and) Dimethiconol (and) Amodimethicone (and) Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone (and) Laureth-4 (and) Laureth-5 (and) Laureth-23 (and) PEG-55 Stearate
SM2658	Amodimethicone (and) Trideceth-12 (and) Glycerin (and) Cetrimonium Chloride
SME253 PF	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12
Polyether Siloxane Copolymers	
SF1188A	PEG/PPG-20/15 Dimethicone
Silsoft 880 dimethicone copolyol	PEG-12 Dimethicone
Silsoft 860 dimethicone copolyol	PEG-10 Dimethicone
Silsoft 440 dimethicone copolyol	PEG-20/PPG-23 Dimethicone
SF1288	PEG-12 Dimethicone
Silsoft 895 dimethicone copolyol	PEG-17 Dimethicone
Silsoft 900 dimethicone copolyol	PPG-12 Dimethicone
Silsoft 900 dimethicone copolyol Silsoft SEL fluid	PPG-12 Dimethicone Polysilicone-16 (and) Trideceth-5
Silsoft 900 dimethicone copolyol Silsoft SEL fluid Silsoft TT fluid	PPG-12 Dimethicone
Silsoft 900 dimethicone copolyol Silsoft SEL fluid Silsoft TT fluid Gum Fluid Blends	PPG-12 Dimethicone Polysilicone-16 (and) Trideceth-5 Polysilicone-17 (and) Trideceth-5 (and) Meroxapol 172
Silsoft 900 dimethicone copolyol Silsoft SEL fluid Silsoft TT fluid Gum Fluid Blends Silsoft 1215	PPG-12 Dimethicone Polysilicone-16 (and) Trideceth-5 Polysilicone-17 (and) Trideceth-5 (and) Meroxapol 172 Cyclopentasiloxane (and) Dimethiconol
Silsoft 900 dimethicone copolyol Silsoft SEL fluid Silsoft TT fluid Gum Fluid Blends	PPG-12 Dimethicone Polysilicone-16 (and) Trideceth-5 Polysilicone-17 (and) Trideceth-5 (and) Meroxapol 172

Note: A full line of basic silicones is available, including oils, volatiles, gums and various blends. Please contact Customer Service for additional information.

(1) Proposed

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Creams	Gels	Roll-ons	Pump Sprays	Sticks/Solids	Eye Shadow	Mascara	Foundation	Lip Products	Powders	Shampoo	Conditioner	Styling Products	Relaxers	Shampoo	Conditioner	Curl Activators	Cuticle Coats	Waxes/Pomades	Mousse	Pump Spray	Shampoo	Conditioner	Developers	Pre/After-Shave Lotion	Shaving Foam	Liquid Soap	Shower Gel	Shower Conditioner	Body Care	Facial Care	Sunscreen
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28 Silicone Specialties for Personal Care

Typical Physical Properties⁽¹⁾

Product Category and Product Name	INCI Name
Silicone Structurants/Sensory Enhan	cers
Velvesil* 034 organosilicone gel	Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Velvesil FX gel powder	Cyclopentasiloxane (and) Boron Nitride (and) Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Velvesil Plus gel	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer (and) PEG/PPG-20/23 Dimethicone
Velvesil DM silicone	Dimethicone (and) Cetearyl Dimethicone Crosspolymer
Velvesil 125 crosspolymer network	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer
Silsoft* silicone gel	Cyclopentasiloxane (and) Cetearyl Dimethicone/Vinyl Dimethicone Crosspolymer
SFE839	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer
Silicone Spheres	
Tospearl* AQ microspheres	Polymethylsilsesquioxane (and) Polyquaternium-7 (and) PEG-7 Glyceryl Cocoate (and) Methylsilanol Tri-PEG-8 Glyceryl Cocoate
Tospearl 150KA microspheres	Polymethylsilsesquioxane
Tospearl 1110A microspheres	Polymethylsilsesquioxane
Silsoft E-Pearl emulsion	Polymethylsilsesquioxane (and) Dimethicone (and) Isohexadecane (and) PEG-40 Stearate (and) Cetearyl Methicone (and) Steareth-2 (and) Steareth-21
Tospearl 120A microspheres	Polymethylsilsesquioxane
Tospearl 145A microspheres	Polymethylsilsesquioxane
Tospearl 2000B microspheres	Polymethylsilsesquioxane
Tospearl 3000A microspheres	Polymethylsilsesquioxane
Boron Nitride	
Momentive Softouch* CCS402 (BN) powder	Boron Nitride
Momentive Softouch CC6097 (BN) powder	Boron Nitride
Momentive Softouch CC6064 (BN) powder	Boron Nitride (and) Dimethicone
Momentive Softouch CCS102 (BN) powder	Boron Nitride
Momentive Softouch CC6004 (BN) powder	Boron Nitride
Momentive Softouch CC6058 (BN) powder	Boron Nitride
Momentive Softouch CC6059 (BN) powder	Boron Nitride
Momentive Softouch CC6069 (BN) powder	Boron Nitride
Silicone Resins	
SilForm* Flexible resin	Polymethylsilsesquioxane
SR1000	Trimethylsiloxysilicate
SS4230	Cyclopentasiloxane (and) Trimethylsiloxysilicate
SS4267	Dimethicone (and) Trimethylsiloxysilicate
Silsoft FR-5 fluid	Trifluoropropyldimethylsiloxy/Trimethylsiloxy Silsesquioxane (and) Dimethicone
SilForm FR-10 fluid	Trifluoropropyldimethylsiloxy/Trimethylsiloxy Silsesquioxane (and) Dimethicone
Silsoft Style silicone	Silica Dimethicone Silylate (and) TEA Dodecylbenzenesulfonate (and) PEG/PPG-5/3 Trisiloxane
Silicone Emulsifiers	
SF1528	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone
SF1540	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone
SilForm EOF emulsifier	Polysilicone-25
SilForm 60-A emulsifier	PEG/PPG-20/15 Dimethicone (and) Diisopropyl Adipate
Silicone Waxes	
SF1632	Cetearyl Methicone
SF1642	C30-45 Alkyl Dimethicone

Note: A full line of basic silicones is available, including oils, volatiles, gums and various blends. Please contact Customer Service for additional information.

- (1) Typical data are average data. The actual values may vary.

 Product specifications for specific applications need to be agreed upon individually.
- (2) Worked viscosity

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1.32 White, spherical White crystal White crystal	
1.32 White, spherical White crystal White crys	l powder
1.32 White, spherical White, spherical White, spherical White, spherical White, spherical White crystal	-
1.32 White, spherical	-
2.28 White crystal 3 2.19 White crystal	
2.28 White crystal 3 2.19 White crystal	
3 2.19 White crystal	
2.24 T.65 (In-plane) Write crystal	
2.24 1.65 (in-plane) White crystal 2.24 1.65 (in-plane) White crystal	
2.24 1.65 (in-plane) White crystal	
2.24 1.65 (in-plane) White crystal	
2.24 T.05 (III-piane) Write Crystal	
100 1.24 238 White powder	
100 1.24 236 White powder	
100 70–200 cSt 1.05 >65.5 1.406 Clear, colorless	liquid
100 300–700 cSt 1.025 201 1.409 Clear, colorless	·
100 0.5 Pas max 1.045 190 1.406 Clear liquid	прин
100 0.4 Pas 1.06 190 1.406 Clear liquid	
20 10 1 White liquid	
100 250 cSt max. 0.959 77 Colorless liquid	
100 10,000–50,000 cP 1.00 63 1.407 Cream to white	
95 2,000–10,000 cSt 102 Straw-colored li	
60 8,500 cP 0.96 104 1.4241 Transparent, stra	iquid
100 0.81 >100 1.459 White wax	
100 >100 Tan-colored wax	

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Typical Physical Properties⁽¹⁾

Product Category and Product Name	INCI Name
Alkyl Silicones	
Silsoft* ETS trisiloxane	Ethyl Trisiloxane
Silsoft 034 organosilicone fluid	Caprylyl Methicone
Silicone Polyacrylate Emulsion	
Silsoft SurFace PF film former	Dimethicone PEG-8 Polyacrylate
Silicone Quats	
Silsoft Q PF cationic aminosilicone terpolymer	Water (and) Silicone Quaternium-18 (and) Trideceth-6 (and) Trideceth-12
Silsoft Care quat blend	Cyclopentasiloxane (and) Silicone Quaternium-18
Phenyl Modified Fluids	
SF1550	Phenyltrimethicone
SF1555	Bisphenylpropyl Dimethicone
SilShine* 151 gloss additive	Phenylpropyldimethylsiloxysilicate
Aminofunctional Silicones/Amodim	nethicone
Silsoft A+ conditioning agent	PEG-40/PPG-8 Methylaminopropyl/Hydroxypropyl/Dimethicone Copolymer
Silsoft AX conditioning agent	Bis-Cetearyl Amodimethicone
Silsoft AX-E conditioning agent	Bis-Cetearyl Amodimethicone (and) Ceteareth-7 (and) Ceteareth-25(2)
SF1708	Amodimethicone
Silsoft A-843 copolymer	Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone
Silsoft Tone color retaining conditioning agent	Polysilicone-18 Cetyl Phosphate
Aminofunctional Emulsions	
Silsoft EMU 8110-N emulsion	Water (and) Dimethiconol (and) Amodimethicone (and) Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone (and) Laureth-4 (and) Laureth-5 (and) Laureth-23 (and) PEG-55 Stearate
SM2658	Amodimethicone (and) Trideceth-12 (and) Glycerin (and) Cetrimonium Chloride
SME253 PF	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12
Polyether Siloxane Copolymers	
SF1188A	PEG/PPG-20/15 Dimethicone
Silsoft 880 dimethicone copolyol	PEG-12 Dimethicone
Silsoft 860 dimethicone copolyol	PEG-10/PEG-10 Dimethicone
Silsoft 440 dimethicone copolyol	PEG-20/PPG-23 Dimethicone
SF1288	PEG-12 Dimethicone
Silsoft 895 dimethicone copolyol	PEG-17 Dimethicone
Silsoft 900 dimethicone copolyol	PPG-12 Dimethicone
Silsoft SEL fluid	Polysilicone-16 (and) Trideceth-5
Silsoft TT fluid	Polysilicone-17 (and) Trideceth-5 (and) Meroxapol 172
Gum Fluids Blends	
Silsoft 1215	Cyclopentasiloxane (and) Dimethiconol
SF1236	Dimethicone
	Differilicone

Note: A full line of basic silicones is available, including oils, volatiles, gums and various blends. Please contact Customer Service for additional information.

(2) Proposed

⁽¹⁾ Typical data are average data. The actual values may vary.

Product specifications for specific applications need to be agreed upon individually.

% Silicone	Viscosity @ 25°C	Specific Gravity @ 25°C	Flash Point °C (Closed Cup)	Refractive Index @ 25°C	Appearance
	<u> </u>				
>98	1.1 mPas 20 ^a C	0.83	45		Clear, colorless liquid
100	3.3 cSt max.	0.83	110	1.413	Clear, colorless liquid
25	100-1,000 cP	1.02			Milky white to beige liquid
20	~100 mPas	0.99			Clear to slightly hazy liquid
100	4,000 cSt	0.95		1.369	Colorless to yellowish liquid
100	15-30 cSt	0.98	138 by DIN 51758	1.46	Clear, colorless liquid
100	5–25 cSt	0.968	>204	1.47	Clear, colorless liquid
100	280-1,000 cSt	1.07	238 by DIN 51757	1.51	Clear, slightly yellow liquid
30	10,000 cSt				Transparent to hazy liquid
100	5,000-20,000 cSt				Clear, colorless
40	40-200 cP	1			Milky white liquid
100	1,250-2,500 cSt	1.01	100		Clear to straw-colored liquid
30	5,000 cSt	1.01	67		Translucent, yellow liquid
95	80,000-120,000 cSt	0.99	>110		Pale yellow, hazy liquid
50	10,000 cP	1.00			Milky white fluid
35		0.99	>100		Light yellow liquid
17–20	2,000 cP max.	1.00			White liquid
100	800-1,400 cSt	1.04	>100	1.448	Clear, straw-colored liquid
100	350–950 cSt	1.09	129	1.457	Pale yellow liquid
100	174 cSt	1.002	132	1.442	Clear, straw-colored liquid
100	1,700 cSt	1.023	97	1.447	Clear, pale yellow liquid
100	250–600 cSt	1.07	>150	1.45	Clear, colorless liquid
100		1.078	140	1.453	Colorless wax
100	250 cSt	0.989	112	1.435	Clear, straw-colored liquid
10	40-120 cP	1	116	1.4538	Clear, straw-colored liquid
25	35-70 cP	0.989	160	1.4549	Clear, straw-colored liquid
100	4,500-8,000 mPas	0.95	77	1.40	Clear, colorless liquid
100	3,000-5,000 cP	0.92	>135	1.40	Clear, colorless liquid
100	350,000-850,000 cP	0.97	148	1.40	Clear, colorless liquid
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