

**MOMENTIVE™**



SILICONE SPECIALTIES FOR PERSONAL CARE



Momentive products can help create silkier lotions, more efficient shampoos and conditioners, drier antiperspirants, more spreadable sunscreens and brighter, smoother cosmetics. Our growing product line includes specialty fluids, dispersions, blends, copolymers, emulsions, film formers and micropowders. Our personal-care formula for client relationships: superb products, enthusiastic technical support, and application development assistance, based on more than 50 years of silicone expertise. Globally, we can help customers create breakthroughs, reduce costs and achieve their business goals.

Collaborating to Advance Innovation	3
Sensory Enhancement	4
Softening and Conditioning	10
Surface Modification	15
Spreading and Wetting	19
Silicone Specialties Potential Applications	22
Silicone Specialties Typical Physical Properties	26

## Core Competencies and Differentiated Technologies for Personal Care



At Momentive, we have a number of core competencies that can allow us to deliver consumer perceivable benefits to personal care products. Some of them are:

- 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 and curl retention in high humidity
- Consistent spreading and wetting to improve dispersion of pigments and spreading of active ingredients and organic oils

## Sensory Enhancement

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.



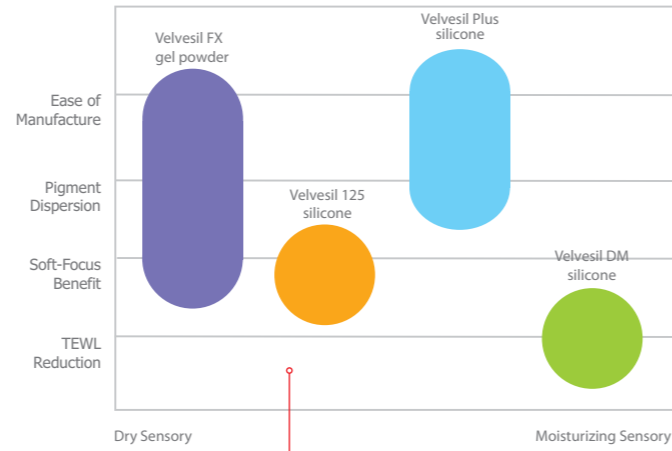
Wow!

## Velvessil\* FX gel-powder

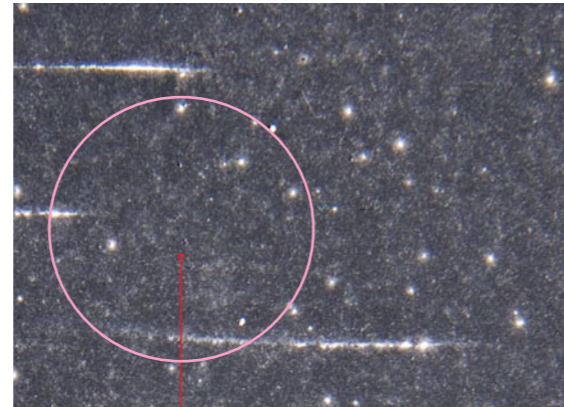
New Velvessil FX gel-powder can enhance the natural-look coverage with a delightful sensory phenomenon. It combines the translucent soft-focus ability of boron nitride with the powdery velvet touch of our patented Velvessil chemistry. Adding a trisiloxane typically improves boron-nitride dispersion within 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.

## Velvessil Plus emulsifiable gel

Velvessil Plus emulsifiable gel is part of our proprietary silicone crosspolymer gel technology: a readily emulsifiable gel offering 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.

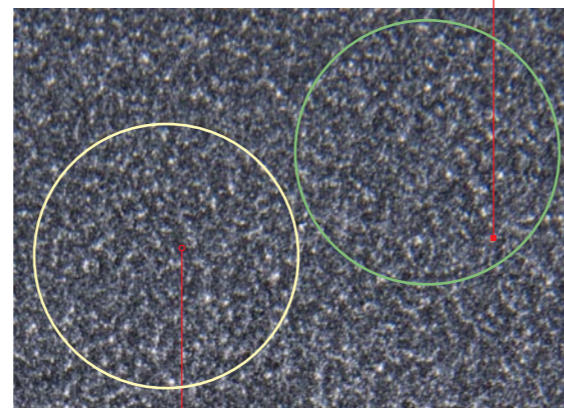


Each Velvessil material offers a distinct sensory with functionality. The choice depends upon the finished formulation requirements.  
 Note: Test data. Actual results may vary.



Boron nitride added to the formulation without Velvessil FX gel powder. Note the poor dispersion and agglomeration.

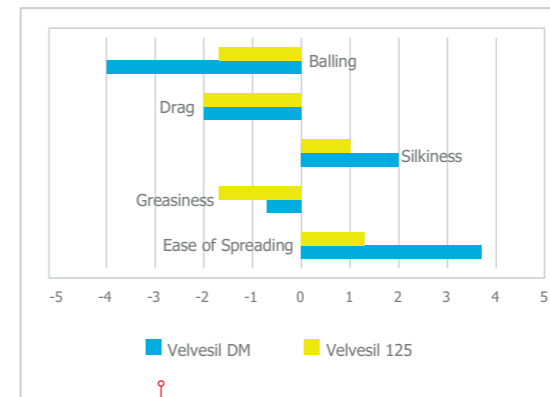
When Velvessil FX gel powder has been added to the formulation, a more consistent coverage has been observed, along with a balanced dispersion.



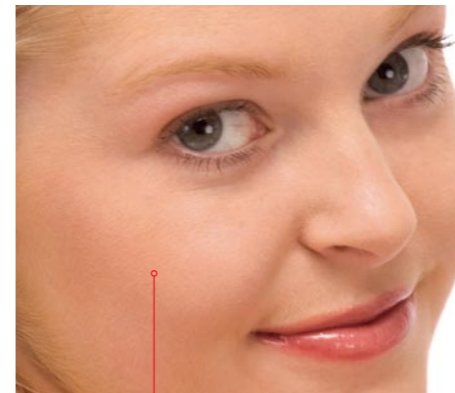
Velvessil FX gel powder can reduce the agglomeration of boron nitride in finished formulations for ease of processing.  
 Note: Test results. Actual results may vary.



Velvessil Plus emulsifiable gel is typically easy to formulate and may help reduce manufacturing time and cost while still helping to improve the sensory experience for your customer.  
 Note: Test results. Actual results may vary.



Velvessil DM silicone has a moisturizing feel for skin conditioning formulations.  
 Note: Test data. Actual results may vary.



Velvessil 125 silicone can deliver a line blurring effect and a unique soft powdery dry skin feel to cosmetics.  
 Note: Test results. Actual results may vary.

## Velvessil\* DM silicone

Velvessil DM silicone can promote easier spreading on the skin, leaving an exquisite, long-lasting, silky feel: enhanced sensory qualities for skin-care products and color cosmetics. This patented multi-functional silicone copolymer network is non-emulsifying, dispersed in dimethicone, and formed in a creamy, transparent gel. It contains ~17% copolymer and exhibits shear-thinning behavior, typically allowing smoother, more consistent spreading of anti-aging, sunscreen and moisturizer products.

## Velvessil 125 silicone

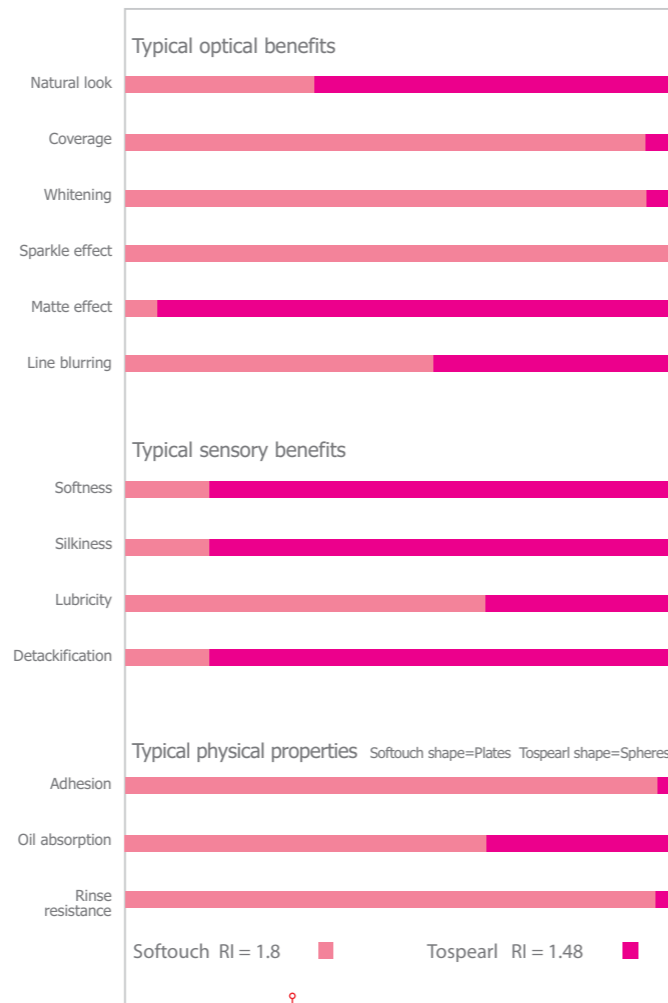
Velvessil 125 silicone copolymer network is our patented multi-functional sensory enhancer. It offers an exceptional feel during rubbing because of its unique particle-size distribution, and has a silky and powdery afterfeel. Its polymerization chemistry differs from the traditional "silicone structurants." It typically provides soft focus and visual effects and gives skin a fresh new feel. Velvessil 125 silicone copolymer network is an excellent candidate to consider for skin and sun care (lotions, creams, self-tanning); anti-aging products; shine/oil control facial products; color cosmetics; anhydrous serums, gels and waxes; and hair styling (cuticle coats, gels, etc.) Formulators have found it an efficient thickener of silicone and organic ingredients, with excellent compatibility. Consider using it as a stabilizer/thickener for W/O and O/W emulsions.

## Tospearl\* microspheres

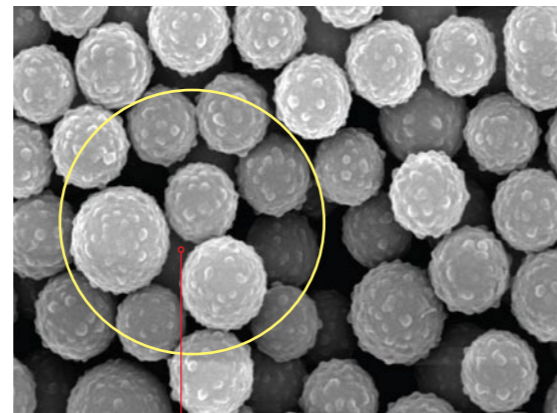
Tospearl microspheres can give a luxurious feel to a variety of facial lotions and color cosmetics. They can give skin lotions and lipsticks excellent lubricity. This series is comprised of mono-dispersed, micro-fine spherical cross-linked siloxane particles. Each grade has a specific particle size to deliver the precise qualities you seek. They typically reduce pressed-powder agglomeration. Tospearl microspheres can make skin creams more spreadable and enhance soft focus effects, to help minimize fine lines and wrinkles.

## Silsoft\* E-Pearl emulsion

Silsoft E-Pearl emulsion is a uniquely versatile, multi-functional chemistry and an excellent candidate to consider for use in many kinds of skin-care products, from facial masks to body washes and sun-care products. Consumers typically experience a rich, moist, sensory feel, and enjoy blurred lines and lightened skin with its effect in the end product. 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 new sensory qualities in skin-care products with high water content, even more than 90% water.



Tospearl and Softouch\* materials typically offer differentiated purpose in finished formulations and have complementary performance benefits.  
Note: Test data. Actual results may vary.

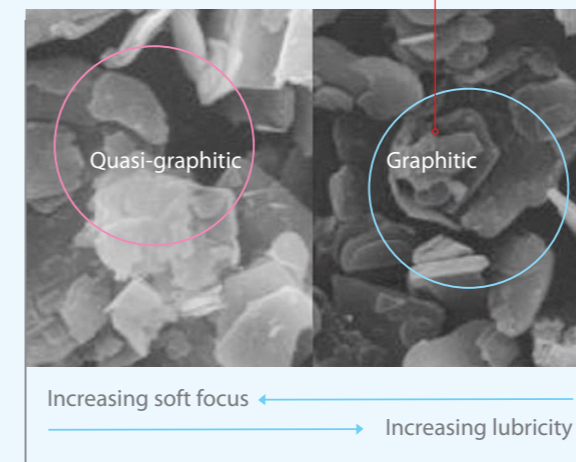


Tospearl microspheres are typically available in a wide variety of sizes and a unique shape. Their very tightly controlled particle size distribution is one of the keys to their performance benefits.  
Note: Test results. Actual results may vary.

As shown below, Silsoft E-pearl emulsion simply self-disperses when added to water.  
Note: Test results. Actual results may vary.



Softouch boron nitride powders are available in an array of crystal morphologies for formulation flexibility.  
Note: Test results. Actual results may vary.



## Softouch\* boron nitride (BN) powder

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 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.

# Touch.



## Softening and Conditioning

Hair should be soft and full, not heavy. Traditional linear materials give great conditioning, but lack the multifunctionality of our specialty materials. Our growing portfolio of AB<sub>n</sub> 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.





**Mode of Action proposed**

Continuous silicone film on hair fiber

**Key properties**

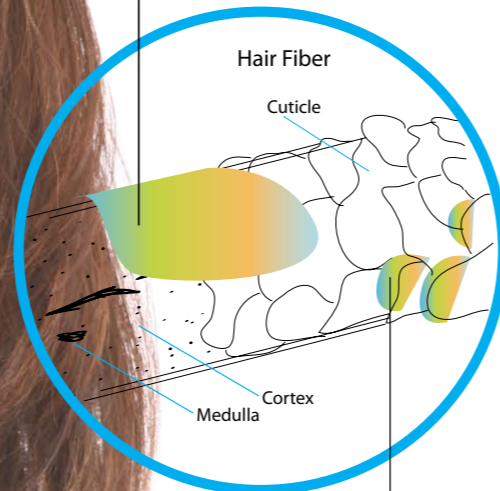
- Substantive; hydrophobic
- Contiguous film
- Low thermal conductivity

**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



**Mode of Action proposed**

Silicone droplets plug holes in uplifted hair cuticles

**Key properties**

- Substantive; small size droplets

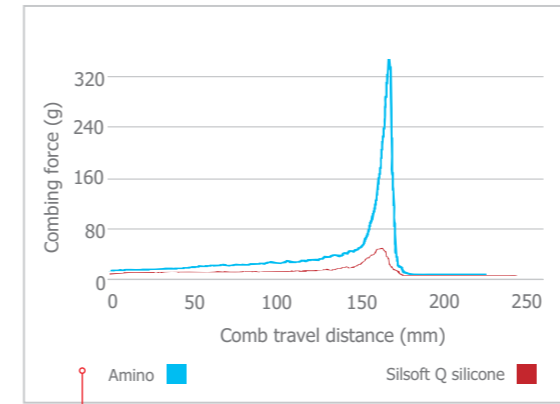
**Typical function**

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

**Potential end benefits**

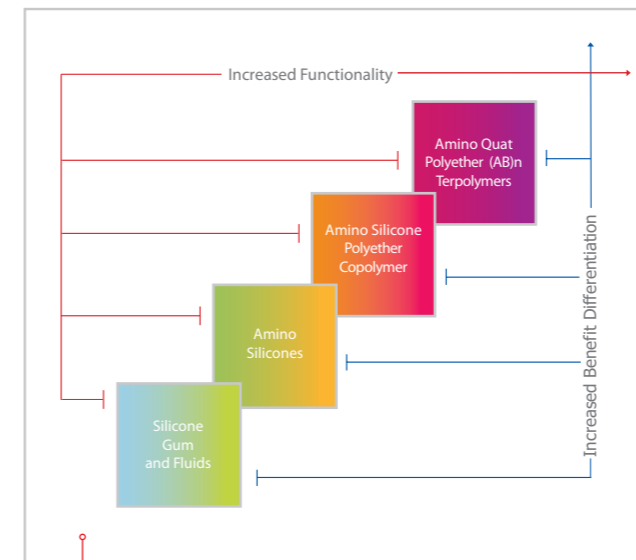
- Smooth; soft feel
- Good physical condition

Note: Test results. Actual results may vary.



Silsoft Q cationic silicone terpolymer can significantly reduce peak combing force.

Note: Test results. Actual results may vary.



**Hair Softening & Conditioning:**  
History of Platform Innovation Differentiated technologies for consumer needs.

After ten washes Silsoft Tone color retaining conditioning agent can still protect hair color from wash-off.

Note: Test results. Actual results may vary.



## Silsoft\* Q cationic amino silicone terpolymer

Silsoft Q cationic amino silicone terpolymer can deliver multi-functional benefits to hair care products for conditioning, deposition and color retention. It typically leaves hair feeling soft, light, clean and natural. This non-yellowing, 20% active, microemulsion of a patented quaternized silicone terpolymer ("silicone quat") can bring a unique dry softness and volume to hair. Its strong conditioning and effective softening make it an excellent candidate to consider for use in products for the ethnic hair care market. Silsoft Q silicone quat has also demonstrated unique sensory attributes in shower and bath products, modifying lather properties and providing a distinctly different after-wash skin feel.

## Silsoft Care blend

Silsoft Care blend is a solution of a proprietary silicone quat, optimized to provide unique conditioning properties to hair. This unique blend is an excellent candidate to consider for leave-in formulations in which feel and manageability are important. The cyclic silicone acts as a volatile carrier, spreading the silicone quat uniformly across the hair surface, and then volatilizing to leave a protective film of silicone. This film typically provides superb wet-and-dry combing properties at low silicone quat active levels, without weighing down the hair.

## Silsoft Tone color retaining conditioning agent

Silsoft Tone color retaining conditioning agent can help protect the color of dyed hair when used in a cleansing shampoo. Silsoft Tone color retaining conditioning agent can provide the exceptional dry combability of dimethicone derivatives; advanced wet combability; and unusual flexibility and ease of formulation.



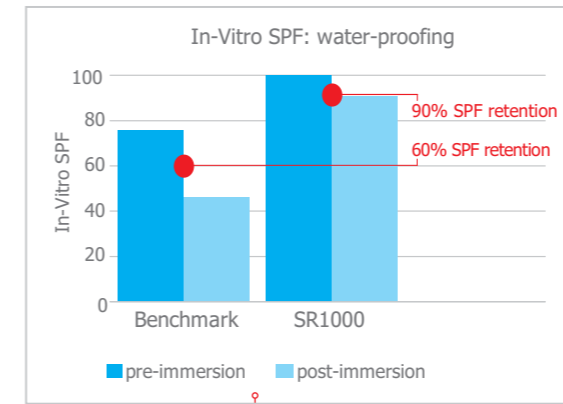


# Contact.

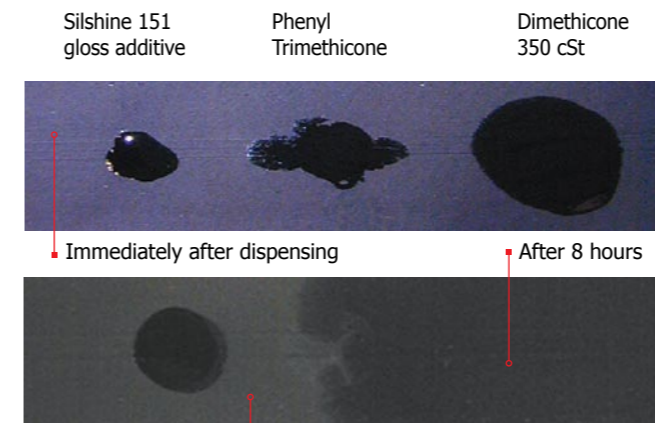
## Surface modification

Sometimes beauty is just on the surface: by forming a film on skin or hair, you can formulate color cosmetics with real staying power—and less transfer on your clothes and your friends. Now you can boost the performance of sunscreens by using our specialty silicones. Our specialty silicones can also enhance the sensory qualities of the film. You can use a film former as a surface modifier to improve water resistance. When your products face the elements, ours can help you put on your best face.

Improved wet rub off is possible with Silsoft SurFace PF film former when added to mascaras, as well as non-transfer capabilities when added to lipsticks.



The addition of SR1000 boosts SPF values and Water Resistance.  
Note: Test data. Actual results may vary.



After 8 hours, Silshine 151 gloss additive migrates less than Phenyl Trimethicone and Dimethicone.  
Note: Test results. Actual results may vary.



Silsoft Style silicone can reduce frizz due to high humidity and can help maintain curl memory.  
Note: Test results. Actual results may vary.

## 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 high-refractive index, non-volatility, non-migration and organic compatibility. Its silicone resin structure typically yields excellent film-forming properties. Its phenyl functionality is compatible with most organic emollients, without sacrificing compatibility with silicones.

## 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.

## Silsoft\* SurFace PF film former

Silsoft SurFace 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.

## 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 cross-linked polydimethylsiloxane, blended with a trisiloxane, it typically spreads rapidly with low tack and dries quickly.





FLOW

## Consistent Spreading

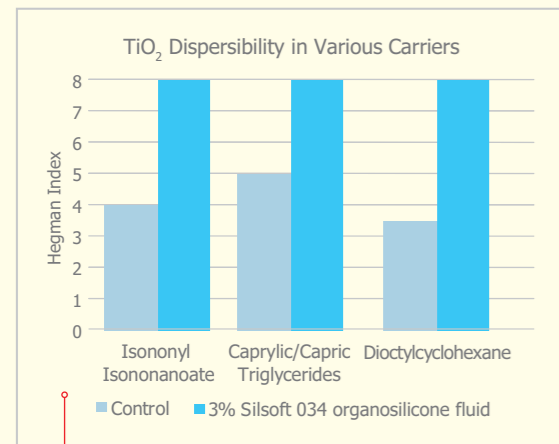
Flawless. That's the look. How do you make sure a pigment spreads evenly in a foundation? Reduce surface tension, so active ingredients can spread rapidly on the skin or down each shaft of hair. Choose from a wide range of dimethicone copolyol products, to bring out each quality you seek within different phases. Their multi-functionality can help you reduce production time. That's formulation flexibility in all forms.

## 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, you can create a range of materials that offer diverse foaming, solubility, emulsification and pigment dispersion, and wetting benefits.

## 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 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 need less rub-on time. In color cosmetic formulations, Silsoft 034 organosilicone can offer a silky afterfeel and can significantly improve the dispersibility of inorganic pigments in formulations that contain organic oils.

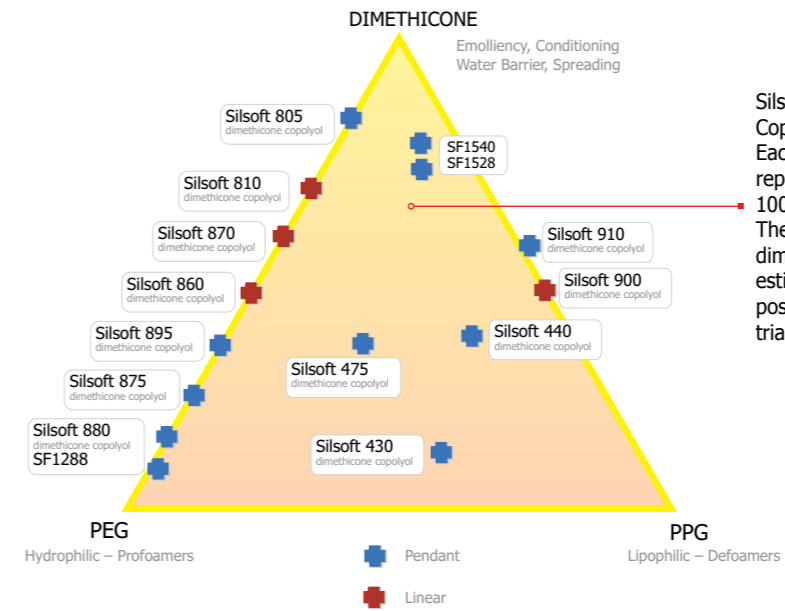
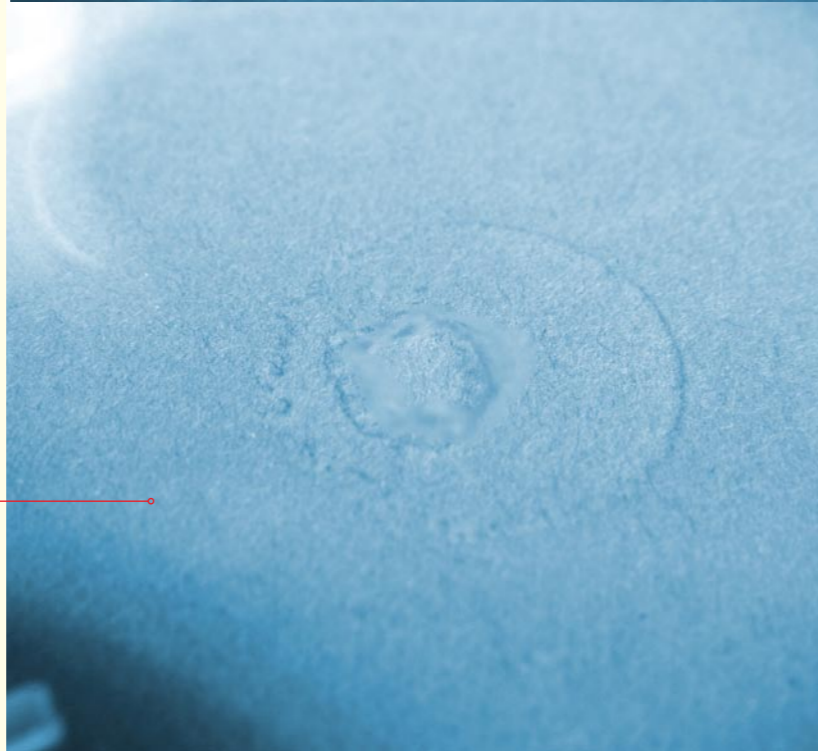
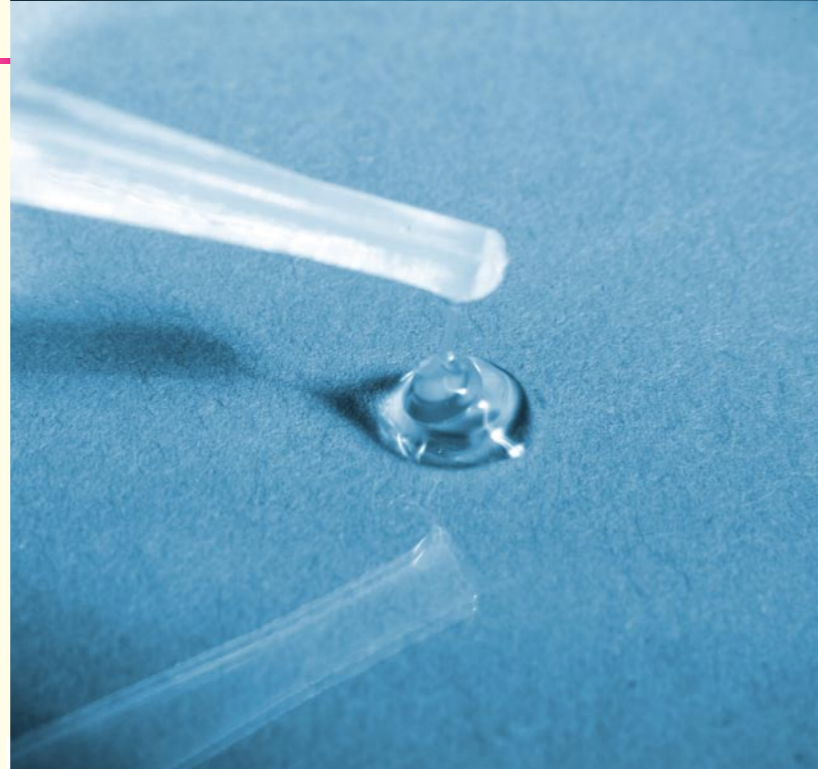


Silsoft 034 organosilicone fluid can help boost SPF values by spreading active ingredients evenly and quickly.

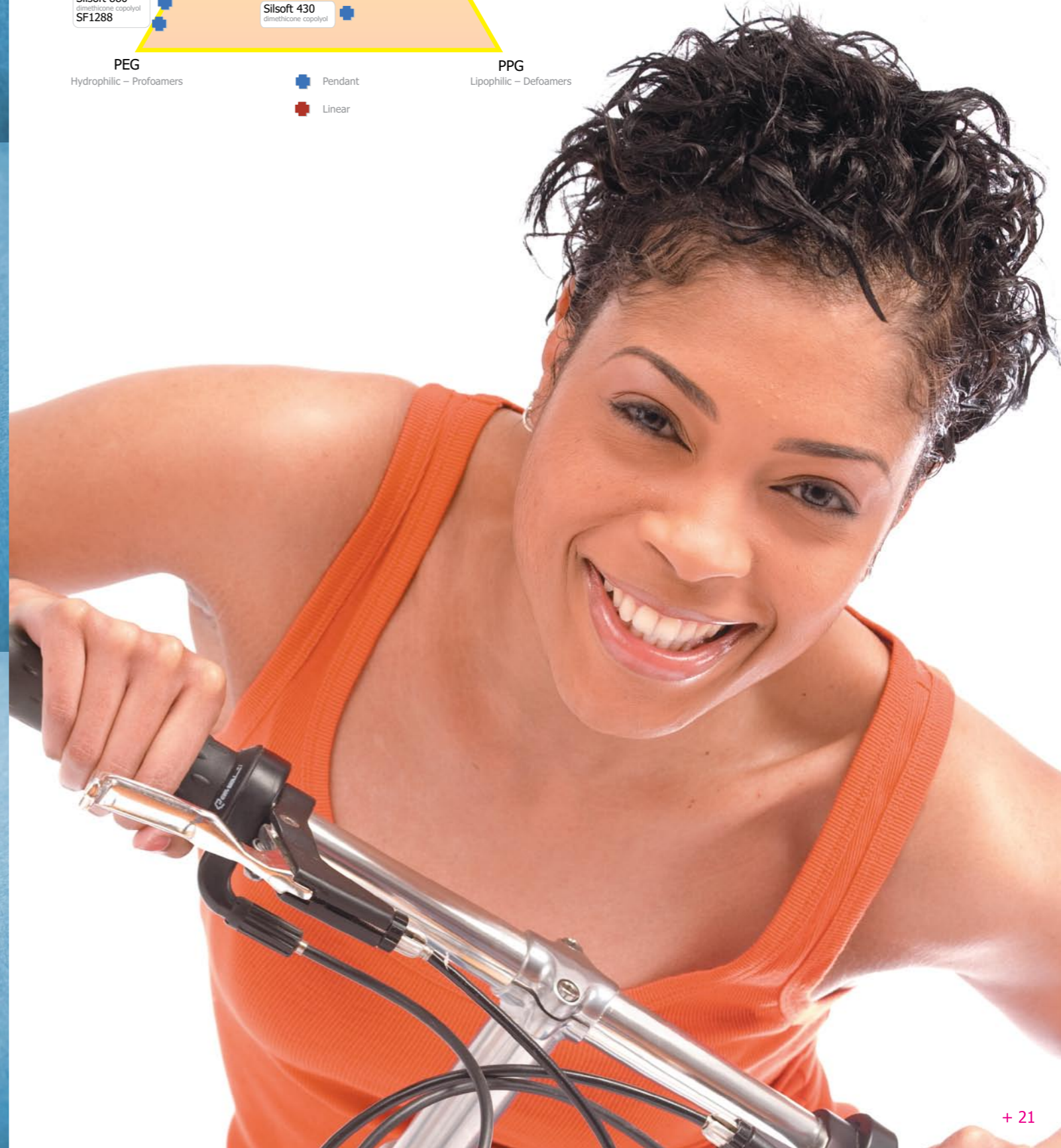
Note: Test results. Actual results may vary.

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

Note: Test results. Actual results may vary.



Silsoft\* Dimethicone Copolyol Selection Guide  
Each corner of the triangle either represents 100% dimethicone, 100% PEG or 100% PPG. The properties of a Silsoft dimethicone copolyol can be estimated depending upon its position within the selector triangle, relative to the corners.



Silicone specialties for personal care  
Potential applications

Product Category and Product Name	INCI Name	Decorative & Color Cosmetics								Ethnic Hair Care				Hair Care						Hair Color Retention			Shaving		Shower & Bath			Skin & Sun Care									
		Creams	Gels	Roll-ons	Pump Sprays	Sticks/Solids	Eye Shadow	Mascara	Foundation	Lipstick	Powder	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				
<b>SILICONE STRUCTURANTS/SENSORY ENHANCERS</b>																																					
Velvesil* FX gel powder	Cyclopentasiloxane (and) Boron Nitride (and) Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	X	X	X		X	X	X	X	X			X					X	X						X				X	X	X	X					
Velvesil Plus gel	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Copolymer (and) PEG/PPG-20/23 Dimethicone	X	X	X		X	X	X	X	X			X					X	X						X				X	X	X	X					
Velvesil DM silicone	Dimethicone (and) Cetearyl Dimethicone Crosspolymer					X	X	X	X	X			X					X	X						X			X	X	X	X	X					
Velvesil 125 copolymer network	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	X	X	X		X	X	X	X	X			X					X	X						X			X	X	X	X						
Silsoft* silicone gel	Cyclopentasiloxane (and) Cetearyl Dimethicone/Vinyl Dimethicone Crosspolymer	X	X	X		X	X	X	X	X															X					X	X	X					
SFE839	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	X	X	X		X	X	X	X	X															X					X	X	X					
<b>SILICONE SPHERES</b>																																					
Tospearl* 150KA microspheres	Polymethylsilsequioxane						X	X	X	X	X																				X	X	X				
Tospearl 1110A microspheres	Polymethylsilsequioxane						X	X	X	X	X																					X	X	X			
Silsoft E-Pearl emulsion	Polymethylsilsequioxane (and) Dimethicone (and) Isohexadecane (and) Cetearyl Methicone (and) PEG-40 Stearate (and) Steareth-2 (and) Steareth-21								X																		X	X	X	X	X	X	X				
Tospearl 120A microspheres	Polymethylsilsequioxane						X	X	X	X	X				X																X	X	X				
Tospearl 145A microspheres	Polymethylsilsequioxane						X	X	X	X	X																				X	X	X				
Tospearl 2000B-PC microspheres	Polymethylsilsequioxane	X		X		X	X	X	X	X	X																				X	X	X				
Tospearl 3000A microspheres	Polymethylsilsequioxane	X		X		X	X	X	X	X	X																				X	X	X				
<b>BORON NITRIDE</b>																																					
Softouch* CCS102 boron nitride powder	Boron Nitride	X	X	X			X	X	X	X	X														X	X				X	X	X					
Softouch CC6004 boron nitride powder	Boron Nitride	X	X	X			X	X	X	X	X														X	X				X	X	X					
Softouch CC6058 boron nitride powder	Boron Nitride	X	X	X			X	X	X	X	X														X	X				X	X	X					
Softouch CC6059 boron nitride powder	Boron Nitride	X	X	X			X	X	X	X	X														X	X				X	X	X					
Softouch CC6069 boron nitride powder	Boron Nitride	X	X	X			X	X	X	X	X														X	X				X	X	X					
<b>SILICONE RESINS</b>																																					
SR1000	Trimethylsiloxysilicate						X	X	X	X								X				X								X	X	X					
Silsoft 74 resin EMEA & India	Trimethylsiloxysilicate (and) Isododecane						X	X	X	X								X				X								X	X	X					
SS4230	Cyclopentasiloxane (and) Trimethylsiloxysilicate						X	X	X	X								X				X								X	X	X					
SS4267	Dimethicone (and) Trimethylsiloxysilicate						X	X	X	X	X							X				X								X	X	X					
SF1318	Diisostearyl Trimethylolpropane Siloxy Silicate Isooctadecanoic Acid						X	X	X	X								X				X								X	X	X					
Silsoft Style silicone	Silica dimethicone silylate (and) TEA dodecylbenzenesulfonate (and) PEG/PPG -5/3 trisiloxane												X				X	X	X	X																	
<b>SILICONE EMULSIFIERS</b>																																					
SF1528	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone		X	X	X			X	X				X	X					X												X	X	X				
SF1540	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone		X	X	X			X	X				X	X					X												X	X	X				
<b>SILICONE WAXES</b>																																					
SF1632	Cetearyl Methicone	X		X		X		X	X	X			X						X						X			X	X	X	X	X	X				
SF1642	C30-45 Alkyl Dimethicone	X		X		X		X	X	X			X						X										X	X	X	X	X	X			
<b>ALKYL SILICONES</b>																																					
Silsoft 034 organosilicone fluid	Caprylyl Methicone								X	X			X					X				X					X	X	X	X	X	X					
<b>SILICONE POLYACRYLATE EMULSION</b>																																					
Silsoft SurFace PF film former	Dimethicone PEG-8 Polyacrylate							X	X			X								X	X																
<b>SILICONE QUATS</b>																																					
Silsoft Q cationic amino silicone terpolymer	Water (and) Silicone Quaternium-18 (and) Trideceth-6 (and) Trideceth-12										X	X			X	X							X	X	X			X	X	X							
Silsoft Care quat blend	Cyclopentasiloxane (and) Silicone quaternium-18										X	X			X	X	X	X						X				X	X	X							

Silicone specialties for personal care  
Potential applications

Product Category and Product Name	INCI Name						Decorative & Color Cosmetics					Ethnic Hair Care				Hair Care					Hair Color Retention			Shaving		Shower & Bath			Skin & Sun Care				
		Creams	Gels	Roll-ons	Pump Sprays	Sticks/Solids	Eye Shadow	Mascara	Foundation	Lipstick	Powder	Shampoo	Conditioner	Styling Products	Relaxers	Shampoo	Conditioner	Curl Activators	Cuticle Coats	Mousse	Pump Spray	Shampoo	Conditioner	Developers	Pre/After-Shave Lotion	Shaving Foam	Liquid Soap	Shower Gel	Shower Conditioner	Body Care	Facial Care	Sunscreen	
<b>PHENYL MODIFIED FLUIDS</b>																																	
Baysilone* PD 5 fluid <small>EMEA &amp; India</small>	Phenyltrimethicone	X	X	X	X	X			X	X								X															
Baysilone PK 20 fluid <small>EMEA &amp; India</small> SF1550 <small>Americas</small>	Phenyltrimethicone	X	X	X	X	X			X	X	X							X	X	X				X					X	X	X		
SF1555	Bisphenylpropyl Dimethicone	X	X	X	X	X			X	X	X							X	X	X				X					X	X	X		
Silshine* 151 gloss additive	Phenylpropyldimethylsiloxysilicate	X	X	X	X	X	X		X	X	X	X	X			X		X	X	X				X					X	X	X		
<b>AMINOFUNCTIONAL SILICONES/AMODIMETHICONE</b>																																	
SF1708	Amodimethicone											X	X			X	X			X							X	X	X				
Silsoft* A-843 copolymer	Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl dimethicone											X	X			X	X										X	X	X				
Silsoft A-553 conditioner	Polysilicone-18											X	X			X	X										X	X	X				
Silsoft Tone color retaining conditioning agent	Polysilicone-18 Cetyl Phosphate											X	X	X		X	X		X				X				X	X	X				
<b>AMINOFUNCTIONAL EMULSIONS</b>																																	
SM2125	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride											X	X			X	X	X	X				X				X	X					
SM2658	Amodimethicone (and) Trideceth-12 (and) Glycerin (and) Cetrimonium Chloride											X	X			X	X	X	X				X				X	X					
SME253	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) glycerin (and) Trideceth-12											X	X	X	X	X	X	X	X				X	X			X	X					
<b>POLYETHER SILOXANE</b>																																	
Silsoft 860 dimethicone copolyol	PEG-10 Dimethicone	X	X	X		X			X			X				X							X			X	X	X	X	X	X		
Silsoft 440 dimethicone copolyol	PEG-20/PPG-23 Dimethicone	X		X					X			X				X	X	X	X	X				X			X	X					
SF1288	PEG-12 Dimethicone			X					X			X				X	X	X	X	X				X			X	X	X	X			
Silsoft 895 dimethicone copolyol	PEG-17 Dimethicone											X														X	X	X	X				
Silsoft 900 dimethicone copolyol	PPG-12 Dimethicone									X									X														
<b>VOLATILES</b>																																	
SF1202	Cyclopentasiloxane	X	X	X	X	X	X	X	X	X																			X	X	X		
SF1256, SF1257, SF1258	Cyclopentasiloxane (and) Cyclohexasiloxane	X	X	X	X	X	X	X	X	X																			X	X	X		
<b>POLYDIMETHYLSILOXANE/DIMETHICONE</b>																																	
Baysilone M dimethicone (3-20) <small>EMEA &amp; India</small> SF96 (5-20) <small>Americas</small>	Dimethicone	X	X	X			X		X	X	X									X						X	X			X	X	X	
Baysilone M dimethicone (50-1,000) <small>EMEA &amp; India</small> SF96 (50-1000) <small>Americas</small>	Dimethicone	X		X	X	X			X										X							X	X			X	X	X	
Baysilone M dimethicone (5,000-2,000, 000) <small>EMEA &amp; India</small> Viscasil* dimethicone 5M - 600M <small>Americas</small>	Dimethicone	X										X	X			X	X								X		X	X			X	X	X
SE30	Dimethicone									X			X			X																X	
<b>GUM FLUID BLENDS</b>																																	
Silsoft 1215 dimethicone	Cyclopentasiloxane (and) Dimethiconol						X		X	X	X	X	X			X	X	X	X						X				X	X	X		
SF1214	Cyclopentasiloxane (and) Dimethicone						X		X	X	X	X	X			X	X	X	X						X				X	X	X		
Silsoft 78 gum fluid <small>EMEA &amp; India</small>	Dimethicone (and) Isododecane						X	X	X	X	X																		X	X	X		
SF1236	Dimethicone								X																				X	X	X		
SF1276	Dimethicone								X																				X	X	X		
CF1251	Dimethicone											X				X		X															



Silicone specialties for personal care  
Typical physical properties<sup>(1)</sup>

Product Category and Product Name	INCI Name	% Silicone	Viscosity @ 25°C	Specific Gravity @ 25°C	Flash Point °C (Closed Cup)	Refractive Index @ 25°C	Appearance
<b>SILICONE STRUCTURANTS/SENSORY ENHANCERS</b>							
Velvesil* FX gel powder	Cyclopentasiloxane (and) Boron Nitride (and) Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	70-90	-	0.959	77	-	White gel powder
Velvesil Plus gel	Cyclopentasiloxane (and) Cetearyl Dimethicone Crosspolymer (and) PEG/PPG-20/23 Dimethicone	100	>150,000 cP	0.95	77	-	Translucent gel
Velvesil DM Silicone	Dimethicone (and) Cetearyl Dimethicone Crosspolymer	100	>65.000 cSt	0.96	135	1.399	Clear to translucent gel
Velvesil 125 copolymer network	Cyclopentasiloxane (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	100	>130.000 cP	0.95	77	1.399	Translucent gel
Silsoft* silicone gel	Cyclopentasiloxane (and) Cetearyl Dimethicone/Vinyl Dimethicone Crosspolymer	100	10.000 - 25.000 cP <sup>(2)</sup>	0.87	77	-	Clear, Colorless gel
SFE839	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	100	10.000 - 30.000 cP <sup>(2)</sup>	0.95	82	1.396	Clear, Colorless gel
<b>SILICONE SPHERES</b>							
Tospearl* 150KA microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spiky powder
Tospearl 1110A microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spherical powder
Silsoft E-Pearl emulsion	Polymethylsilsequioxane (and) Dimethicone (and) Isohexadecane (and) Cetearyl Methicone (and) PEG-40 Stearate (and) Steareth-2 (and) Steareth-21	60	7000	1.02	-	-	White liquid
Tospearl 120A microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spherical powder
Tospearl 145A microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spherical powder
Tospearl 2000B-PC microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spherical powder
Tospearl 3000A microspheres	Polymethylsilsequioxane	100	-	1.32	-	-	White, spherical powder
<b>BORON NITRIDE</b>							
Softouch* CCS102 boron nitride powder	Boron Nitride	-	-	2.1 - 2.2	-	1.8	White crystal
Softouch CC6004 boron nitride powder	Boron Nitride	-	-	2.1 - 2.2	-	1.8	White crystal
Softouch CC6058 boron nitride powder	Boron Nitride	-	-	2.1 - 2.2	-	1.8	White crystal
Softouch CC6059 boron nitride powder	Boron Nitride	-	-	2.1 - 2.2	-	1.8	White crystal
Softouch CC6069 boron nitride powder	Boron Nitride	-	-	2.1 - 2.2	-	1.8	White crystal
<b>SILICONE RESINS</b>							
SR1000	Trimethylsiloxysilicate	100	-	-	-	-	White powder
Silsoft 74 resin <small>EMEA &amp; India</small>	Trimethylsiloxysilicate (and) Isododecane	75	2.500 - 7.000 mPas	0.93	43	1.418	Opaque liquid
SS4230	Cyclopentasiloxane (and) Trimethylsiloxysilicate	100	70 - 200 cSt	1.05	>65.5	1.406	Clear, colorless liquid
SS4267	Dimethicone (and) Trimethylsiloxysilicate	100	300 - 700 cSt	1.025	201	1.409	Clear, colorless liquid
SF1318	Diisostearoyl Trimethylolpropane Siloxy Silicate Isooctadecanoic Acid	100	600 cSt	0.95	138	1.47	Clear to straw liquid
Silsoft Style silicone	Silica dimethicone silylate (and) TEA dodecylbenzenesulfonate (and) PEG/PPG -5/3 trisiloxane	20	10	1	-	-	White liquid
<b>SILICONE EMULSIFIERS</b>							
SF1528	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone	100	250 cSt max.	0.959	77	-	Colorless liquid
SF1540	Cyclopentasiloxane (and) PEG/PPG-20/15 Dimethicone	100	10.000 - 50.000 cP	1.00	63	1.407	Cream to white liquid
<b>SILICONE WAXES</b>							
SF1632	Cetearyl Methicone	100	-	0.81	>100	1.459	White wax
SF1642	C30-45 Alkyl Dimethicone	100	-	-	>100	-	Tan colored wax pastilles
<b>ALKYL SILICONES</b>							
Silsoft 034 organosilicone fluid	Caprylyl Methicone	100	3 cSt max.	0.83	110	1.413	Clear, colorless liquid
<b>SILICONE POLYACRYLATE EMULSION</b>							
Silsoft SurFace PF film former	Dimethicone PEG-8 Polyacrylate	25	100 - 1.000 cP	1.02	-	-	Milky white to beige liquid
<b>SILICONE QUATS</b>							
Silsoft Q cationic amino silicone terpolymer	Water (and) Silicone Quaternium-18 (and) Trideceth-6 (and) Trideceth-12	20	~100 mPas	0.99	-	-	Clear to slightly hazy liquid
Silsoft Care quat blend	Cyclopentasiloxane (and) Silicone Quaternium-18	100	4000	0.95	-	1.369	Colorless to yellowish liquid

<sup>(1)</sup> Typical data are average data. The actual values may vary.  
Product specifications for specific applications need to be agreed upon individually.  
<sup>(2)</sup> Worked viscosity



# Silicone specialties for personal care

## Typical physical properties<sup>(1)</sup>



Product Category and Product Name	INCI Name	% Silicone	Viscosity @ 25°C	Specific Gravity @ 25°C	Flash Point °C (Closed Cup)	Refractive Index @ 25°C	Appearance
<b>PHENYL MODIFIED FLUIDS</b>							
Baysilone* PD 5 fluid EMEA & India	Phenyltrimethicone	100	4 cSt	0.92	>100	1.44	Clear, colorless liquid
Baysilone PK 20 fluid EMEA & India SF1550 Americas	Phenyltrimethicone	100	15 - 30 cSt	0.98	138 by DIN 51758	1.46	Clear, colorless liquid
SF1555	Bisphenylpropyl Dimethicone	100	5 - 25 cSt	0.968	>204	1.47	Clear, colorless liquid
Silshine* 151 gloss additive	Phenylpropyldimethylsiloxysilicate	100	280 - 1000 cSt	1.07	238 by DIN 51757	1.51	Clear, slightly yellow liquid
<b>AMINOFUNCTIONAL SILICONES/AMODIMETHICONE</b>							
SF1708	Amodimethicone	100	1.250 - 2.500 cSt	1.01	100	-	Clear to straw liquid
Silsoft* A-843 copolymer	Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone	30	5.000 cSt	1.01	67	-	Translucent, yellow liquid
Silsoft A-553 copolymer	Polysilicone-18	100	15.000 - 25.000 cSt	0.9993	79	-	Pale, yellow, hazy liquid
Silsoft Tone color retaining conditioning agent	Polysilicone-18 Cetyl Phosphate	95	80.000 - 120.000 cSt	0.99	>110	-	Pale, yellow, hazy liquid
<b>AMINOFUNCTIONAL EMULSIONS</b>							
SM2125	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	38	20 - 200 cP	0.99	>100	-	White liquid
SM2658	Amodimethicone (and) Trideceth-12 (and) Glycerin (and) Cetrimonium Chloride	35	-	0.99	>100	-	Light yellow liquid
SME253	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12	220	2,000 cP max.	1.00	-	-	White liquid
<b>POLYETHER SILOXANES/DIMETHICONE<sup>(2)</sup></b>							
Silsoft 860 dimethicone copolyol	PEG-10/PEG-10 Dimethicone	100	174 cSt	1.002	132	1.442	Clear, straw colored liquid
Silsoft 440 dimethicone copolyol	PEG-20/PPG-23 Dimethicone	100	1700 cSt	1.023	97	1.447	Clear, pale yellow liquid
SF1288	PEG-12 Dimethicone	100	250 - 600 cSt	1.07	>150	1.45	Clear, colorless liquid
Silsoft 895 dimethicone copolyol	PEG-17 Dimethicone	100	-	1.078	140	1.453	Colorless wax
Silsoft 900 dimethicone copolyol	PPG-12 Dimethicone	100	250 cSt	0.989	112	1.435	Clear, straw colored liquid
<b>VOLATILES</b>							
SF1202	Cyclopentasiloxane	100	3.87 cSt	0.96	77	1.395	Clear, colorless liquid
SF1256, SF1257, SF1258	Cyclopentasiloxane (and) Cyclohexasiloxane	100	4.5 - 5.0 cSt	0.96	82	1.397	Clear, colorless liquid
<b>POLYDIMETHYLSILOXANE/DIMETHICONE</b>							
Baysilone M dimethicone (3-20) EMEA & India SF96 (5-20) Americas	Dimethicone	100	3 - 20 cSt	0.92 - 0.95	62 - 240	1.394 - 1.400	Clear, colorless liquid
Baysilone M dimethicone (50-1,000) EMEA & India SF96 (50-1000) Americas	Dimethicone	100	50 - 1,000 cSt	0.96 - 0.97	280 - 320	1.400 - 1.404	Clear, colorless liquid
Baysilone M dimethicone (5,000-2,000, 000) EMEA & India Viscasil* 5M - 600M Americas	Dimethicone	100	5,000 - 2 Million cSt	0.97 - 0.98	320	1.404	Clear, colorless liquid
SE30	Dimethicone	100	~30 Million cSt	0.98	>150	1.404	Colorless paste
<b>GUM FLUIDS BLENDS</b>							
Silsoft 1215 dimethicone	Cyclopentasiloxane (and) Dimethiconol	100	4,500 - 8,000 mPas	0.95	77	1.40	Clear, colorless liquid
SF1214	Cyclopentasiloxane (and) Dimethicone	100	4,000 - 8,000 mPas	0.95	77	1.40	Clear, colorless liquid
Silsoft 78 gum fluid EMEA & India	Dimethicone (and) Isododecane	60	1.2 - 1.6 Million mPas	0.85	43	1.409	Clear, colorless liquid
SF1236	Dimethicone	100	3,000 - 5,000 cP	0.92	>135	1.40	Clear, colorless liquid
SF1276	Dimethicone	100	7,500 - 10,000 cP	0.95	>204	1.403	Clear, colorless liquid
CF1251	Dimethicone	100	350,000 - 850,000 cP	0.97	148	1.40	Clear, colorless liquid

<sup>(1)</sup> Typical data are average data. The actual values may vary.  
Product specifications for specific applications need to be agreed upon individually.  
<sup>(2)</sup> Worked viscosity





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