

uniquely  
beautiful you

Elevating personal care through  
specialty silicone innovation



PERFORMANCE INSPIRED INGENUITY



TORONTO HEAD OFFICE, APPLICATION LABS AND PLANT



MISSISSAUGA, ONTARIO, CANADA, RESEARCH LABS AND PLANT

Since 1989, Siltech has been actively developing materials for the personal care market. Advances in silicone chemistry have continued to increase the importance of this ingredient sector in the development of novel cosmetic products. As personal care formulations increase in complexity, understanding the interactions between various ingredients intended to provide positive formulation enhancements has become increasingly difficult. Choosing a silicone for a cosmetic formulation starts with identifying sought-after benefits. Once the attributes of these benefits are defined, other formulation issues, such as solvent type as well as concentrations and interactions between ingredients need to be determined. Siltech's experienced and versatile sales and technical teams meet your needs by matching novel Siltech chemistries with the benefits you require for your formulations. Siltech provides an extensive range of personal care products, enabling our chemists to collaborate with formulators in creating novel molecules tailored for specific uses.

In addition, Siltech has application formulations, technical papers and data to support the performance claims of our products. Our chemists will help you to not only identify the appropriate chemistry, but also, further validate the solution. Cooperative agreements with Siltech customers have led to numerous innovative cosmetic developments. As silicones continue to play an increasing role in the formulation of new and novel personal care products, Siltech remains committed to leading the development of unique products with the benefits required to support this growing market.

<b>6/7</b>	Product Benefits Guide	<b>16/17</b>	Emulsifiers
<b>8/9</b>	Sustain Series	<b>18/19</b>	Invert PEG/PPG-Free Silicone Emulsifier Cationic Silicone Emulsifier Regular PEG/PPG-Free Silicone Emulsifiers
<b>10/11</b>	Silicone Polyethers Silicone Wetting Agents	<b>20/21</b>	Alkyl Dimethicones
<b>12/13</b>	Cationic Silicones Anionic Silicone Cationic/Anionic Complexes	<b>22/23</b>	Multi-Domain Alkyl Dimethicones MQ Resins and Silsesquioxanes Polyether Functional MQ Resin
<b>14/15</b>	Gum Blends Silicone Elastomer Gels	<b>24/25</b>	Non-Silicone Silicone Emulsions



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Siltech Corp maintains a vigilant eye on the ever-evolving landscape of personal care and cosmetic trends to inform its formulation processes. Our dedicated team consistently monitors market shifts, consumer preferences, and emerging technologies. We stay closely connected with industry publications, attend relevant trade shows, and engage in ongoing market research to stay at the forefront of the latest trends and technologies. By keeping a pulse on these developments, Siltech ensures that our formulations remain not only effective but also aligned with the evolving needs and desires of consumers in the personal care and cosmetic sectors. This commitment to staying informed and adaptable allows us to develop cutting-edge products that match the dynamic needs of the beauty market that formulators present to us.

# The reinvention of beauty

Natural beauty and wellness, self-care, inclusivity, diversity, and personalized routines are just a few familiar terms that play a significant role in the ongoing transformation of the personal care market. Consumers actively seek products that align with these values and prioritize achieving groundbreaking beauty experiences. Now, more than ever, enhancing one's health, wellness, and beauty from the inside out has taken center stage.

At Siltech, our formulators draw their inspiration from current consumer trends and new exciting advancements on the horizon. These opportunities empower our chemists to push the boundaries, leading to the development of innovative products that seamlessly blend scientific expertise with aesthetic appeal.

Our latest developments focus on improving the sustainability of our ingredients and providing a means for our partners to formulate sustainable products.



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## Embracing natural beauty



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Heavy makeup trends now share space with more subtle enhancements, rather than full-fledged masking features. This popular movement aims for a fresh, radiant look that celebrates one's inherent, individual beauty.

"Natural look" beauty trends represent a broader cultural shift promoting diversity, inclusivity, and self-acceptance. It challenges the rigid beauty norms and encourages embracing one's innate beauty, transcending makeup and traditional expectations.

## Beauty perceptions continually evolve

At no other time have so many individuals been more conscious of their well-being, and understanding of the many choices that can influence how they look and feel. At the same time, consumers understanding of well-being and health has also rapidly evolved along with how consumers define beauty.

Throughout the course of history, the term "beautiful" has had many meanings. The reality is simply that beauty or being beautiful is a subjective term and can be defined in many ways by many people. Until recently, the term was mostly used for women and typically in the context of cosmetics. However, it has now taken on a deeper and broader meaning. Today, the notion of beauty is converging with health, wellness, skin and haircare, creating a more holistic approach that not only includes application of various products for your skin and hair, but also the inclusion of lifestyle choices and even nutrition.

The transformation of how consumers perceive beauty is a growing and influential force in daily personal care routines. This powerful trend necessitates the development of innovative products while inspiring consumers to engage with authentic life experiences. The products they seek need to be well formulated and seamlessly integrated into their daily personal care regimens, fostering deeper connections with consumers in shaping the future of beauty.

### Welcome effortless allure

Natural looks favors lightweight products, like sheer foundations or tinted moisturizers, over heavy coverage offerings. A healthy complexion is desired, with minimal usage of eye makeup, soft brows, and a hint of mascara. Lips are adorned with natural shades or tinted balms for a soft, understated elegance.

Natural makeup looks advocates the celebration of natural beauty, drawing a variety of consumers toward the "no makeup makeup" trend. Siltech chemists are well-prepared to provide highly effective chemistries that perfectly align with this trend, ensuring consumers beauty routines are enhanced while maintaining a fresh, natural, effortless appearance.

### Embracing shine: Natural hair trends

The rise of the natural hair movement has spurred a surge in the demand for hair products designed to suit a variety of textures, providing a broader selection for individuals with curly, coily, or kinky hair. Historically, beauty standards tended to favor straight hair, frequently marginalizing women of African descent. However, a formidable movement has emerged, empowering individuals to celebrate their natural curls and coils. In the present day, natural hair care places a strong emphasis on nourishing, moisturizing, and treating hair gently to enhance its overall health. This shift has also resulted in an expanded range of specialized products formulated for different hair types, promoting customized and authentic personal care.



empowering individuals to be unique

Siltech continually seeks the deepest understanding of contemporary values, body norms, diversity, and inclusivity across the entire spectrum of the personal care and cosmetic industry. Our chemists are devoted to creating specialized solutions precisely crafted and catered to the diverse needs of today's demanding consumers.



natural hair trends ready to shine

## An evolution in diversity & inclusion

Today the personal care and cosmetics market conveys a profound and powerful message: beauty is boundless. Amidst a backdrop of political and social challenges, the industry has entered a transformative phase, redefining conventional beauty standards. Diversity and inclusivity now extend beyond a mere range of shades, textures, and fragrances. The time of uncompromising standards for the ideal image, where image manipulation concealed natural features like freckles, blemishes, and wrinkles, is fading into history. Instead, we are witnessing a potent wave of self-expression, with brands keen on meeting the unique requirements of each individual customer. This is achieved by empowering consumers to express their individuality through personalized products tailored to their personal vision of perfection.



The future  
of inclusive  
beauty

**The inclusive beauty movement is reshaping the personal care industry.**

Siltech believes in celebrating individuality. Each of us possesses unique qualities, whether it's related to our race, gender, sexuality, age, religion, size, skin type, hair, or body shape. The personal care and cosmetics industry has evolved significantly, breaking free from the stereotypes that once defined beauty. The future of beauty and personal care technology is now characterized by inclusivity.

Personal care and cosmetics providers have recognized the need to cater to a broader range of consumers, making inclusive beauty technology more accessible than ever before. In this competitive landscape, it is imperative to explore diverse markets and offer specialized product experiences without any bias. Today's consumers are not just looking for products that enhance their appearance but also make them feel fantastic. Products need to be designed and formulated to complement individual qualities and personalities. Inclusive and diverse beauty is not about conforming to a standard but about feeling and looking your best in your own skin.

Siltech's dedicated chemists are constantly expanding the boundaries, striving to develop groundbreaking solutions tailored to a multitude of specialized uses in the realm of personal care and cosmetics. Our extensive array of offerings, combined with our ability to customize solutions, serves a broad and diverse market, presenting opportunities for both established and emerging brands alike.



## The power of wellness

Consumers are expressing a remarkable surge in health consciousness, unlike anything observed in recent years. They show a heightened awareness of one's well-being and a deep understanding of the multitude of choices that can impact one's overall health. The concepts of health, wellness, and beauty have quickly merged, extending beyond mere physical appearance. Consumers' comprehension of well-being and health has also rapidly evolved, along with their interest of wellness practices with regular beauty routines.

**The concept of wellness has a longstanding history, and recently, consumer interest in it has surged significantly.** People are now actively involved in caring for their skin, hair, and bodies, making self-care an integral part of their daily lives. This shift encompasses an overarching approach to enhancing both physical and mental health. It prioritizes self-care, emphasizing personalized skincare, haircare, and cosmetic products with substantiated, effective results. The interest in self-care has seamlessly woven itself into wellness, and influencing how consumers define beauty. Daily routines centered around self-care have gained momentum, with consumers readily incorporating various practices and products into their everyday personal care regimens.

True beauty has always been a reflection of inner well-being as much as outward appearance. Personal care and cosmetic brands are wholeheartedly embracing the wellness movement, recognizing that the essence of beauty lies in transformation. Belief in one's appearance's positive impact on their overall well-being is a powerful message, reinforcing the idea that when you feel good about how you look, you inevitably feel good on the inside as well.



consumers consider  
self care a priority

Siltech continuously monitors consumer preferences and behavioral trends, recognizing how pivotal they are in creating high-performance, marketable personal care formulations. The wellness trend market is undergoing a remarkable expansion, as consumers show a strong commitment to investing more in products that enhance their well-being across various facets, including health, fitness, nutrition, appearance, sleep, and mindfulness. These products are seamlessly becoming part of their everyday personal care routines. The potential in the realms of personal care, wellness, and beauty is vast, and Siltech remains dedicated to closely collaborating with our partners to cultivate stronger consumer-product connections.

# Benefits Guide & Features

⊕⊕⊕ Main Benefit   ⊕⊕ Secondary Benefit   ⊕ Additional Benefit

Product   INCI Name

Conditioning   Wet Comb   Dry Comb   Wetting   Shine/Gloss   Foaming   Spreadability   Emulsification   Softness   Moisturization   Lubricity   Cushion   Volatile D4/ D5 Replacement   SPF Boosting Potential   Extended Wear   Pigment Dispersion

Silsurf Di-T108	BIS-PEG-8 PEG-8 Dimethicone	⊕⊕	⊕	⊕			⊕⊕⊕			⊕		⊕					
Silsurf I108	PEG-8 Dimethicone				⊕		⊕	⊕	⊕⊕⊕	⊕		⊕					⊕⊕⊕
Silsurf Sustain Di-1010	PEG-10 Dimethicone						⊕⊕		⊕			⊕					
Silsurf I117	PEG-17 Dimethicone							⊕⊕⊕		⊕	⊕⊕		⊕⊕			⊕	
Silsurf A208	PEG-8 Dimethicone				⊕⊕				⊕⊕⊕								
Silwax B116	Cetyl Dimethicone							⊕⊕⊕		⊕	⊕		⊕⊕			⊕⊕	
Silwax D0-MS	Phenylisopropyl Dimethicone					⊕⊕⊕		⊕⊕				⊕	⊕			⊕	
Silwax A02	Ethyl Trisiloxane				⊕			⊕⊕⊕				⊕⊕		⊕⊕⊕			
Silwax A08-UP	Caprylyl Methicone				⊕			⊕⊕				⊕		⊕⊕⊕			
Silwax D02	Ethyl Methicone				⊕			⊕⊕				⊕		⊕⊕⊕			
Silwax D221M	Cetyl/Hexacosyl Dimethicone					⊕		⊕⊕⊕		⊕⊕		⊕⊕	⊕⊕⊕			⊕	
Silube J208-212CG	Lauryl PEG-8 Dimethicone								⊕⊕⊕			⊕⊕					⊕
Silube J208-812CG	Lauryl PEG-8 Dimethicone								⊕⊕⊕			⊕⊕					⊕
Silube T308-16CG	Cetyl PEG/PPG-10/1 Dimethicone				⊕⊕				⊕⊕⊕			⊕					⊕
Silube 316	TMP Lauryl Dimethicone							⊕	⊕⊕⊕								⊕⊕⊕
Silube CST Di-25	Bis-Succinoyl TMP Dimethicone								⊕⊕⊕	⊕							⊕⊕
Silube PCH2	Polyglyceryl-4 Isostearate (and) Cetyl PEG/PPG-10/1 Dimethicone (and) Hexyl Laurate								⊕⊕⊕								⊕⊕⊕
Silmer Q25	Trimethylsiloxysilicate	⊕⊕⊕	⊕	⊕	⊕			⊕		⊕	⊕	⊕⊕					⊕
Silmer QT9-30-CG	Polymethylsilsesquioxane (and) Isododecane										⊕		⊕				⊕⊕⊕
Silmer UR-5050	Bis-Hydroxypropyl Dimethicone/SMDI Copolymer	⊕				⊕				⊕⊕			⊕				⊕⊕⊕
Silmer G-162	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer							⊕⊕⊕		⊕⊕⊕	⊕⊕⊕	⊕	⊕⊕⊕				⊕
Silmer Sustain-H	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer							⊕⊕⊕		⊕⊕⊕	⊕⊕⊕	⊕	⊕⊕⊕	⊕			⊕
Silquat J2-8B	Distearmonium/Diethonium Chloride PG Dimethicone	⊕⊕⊕	⊕⊕	⊕⊕				⊕	⊕⊕⊕	⊕⊕		⊕					⊕⊕
Silquat CR 4000	Dimethicone-PG Diethylammonium Chloride (and) Hexylene Glycol	⊕⊕⊕	⊕⊕	⊕⊕						⊕							
Silquat Di-30-F4D	Quaternium-80	⊕⊕⊕	⊕⊕⊕	⊕⊕⊕						⊕⊕							
Siltech 1050	Dimethicone (and) Dimethiconol	⊕⊕⊕				⊕		⊕⊕⊕		⊕	⊕	⊕⊕⊕					
Siltech PTM	Phenyl Trimethicone					⊕⊕⊕		⊕⊕			⊕⊕					⊕	
Siltech CE-2000	Trioctyldodecyl Citrate				⊕			⊕⊕			⊕	⊕	⊕				⊕⊕⊕
Siltech E-2148	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	⊕⊕⊕	⊕⊕	⊕⊕	⊕					⊕							
Silplex J2-S	Silicone Quaternarium-20	⊕⊕⊕	⊕⊕	⊕	⊕	⊕			⊕⊕⊕	⊕							



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### Sustain Series

Siltech's Sustain series specialty silicone ingredients offer premium performance with the added assurance of improved sustainability. Siltech chemists have organically modified the silicone backbone with functional groups derived from renewable biobased carbon content sources. The result: premium performance with a reduced dependency on petroleum feedstocks.

Siltech employs the ASTM D6866 method to determine the percentage of carbon derived from petroleum feedstocks vs natural and renewable sourcing.

If you see Sustain in the name, have confidence that the product has features that promote enhanced sustainability, often verified by independent testing!

Our video provides further insights regarding our Sustain Series innovations.



PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	BIOBASED CARBON CONTENT	TYPICAL APPLICATION	COMMENTS
Silmer® Sustain-H	C13-15 Alkane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Silicone Elastomer Gel	Clear gel, 550,000 cps	90%	Makeup, Sun Care, Hair Care	Silicone elastomer gel dispersed in a renewable, sustainable hemisqualane carrier. Pigment and powder dispersant that adds cushion and provides a long playtime on skin.
Silube® Sustain-S	Gluconamido Lauryl Dimethicone (and) Isoamyl Laurate	Glucose-Modified Aminoalkyl Silicone	Hazy orange liquid, 7,500 cps	(N/A)	Makeup, Creams, Lotions	Versatile emulsifier suitable for (W/O) and (O/W) emulsions. Ideal for pigment dispersion in makeup and sunscreen.
Silurf® Sustain Di-1010	PEG-10 Dimethicone	Silicone Polyether	Hazy liquid, 225 cps	66%	Hydro-alcoholic Hand Sanitizer	Improved sustainability PEG-10 Dimethicone surfactant suitable for (O/W) emulsions and foaming hydro-alcoholic hand sanitizers.
Silube® Sustain 4316	Cetyl PEG/PPG-10/1 Dimethicone	Silicone Alkyl Polyether	Clear liquid, 1,800 cps	73%	Makeup, Sun Care, Creams, Lotions	A (W/O) emulsifier with an approximate HLB of 3. Silube® Sustain 4316 functions as a more sustainable version of the standard Silube® T308-16-CG.
Silwax® Sustain 5116	Cetyl Dimethicone	Alkyl Polydimethylsiloxane	Clear liquid, 25 cps	82%	Sun Care, Lipstick	Recommended for sun care and skin care. Low viscosity product aids in white-cast reduction and helps boost SPF. Silurf® Sustain 5116 functions as a more sustainable version of the standard Silwax B116.
Silube® Sustain J208-612	Lauryl PEG-8 Dimethicone	Silicone Alkyl Polyether	Clear liquid, 750 cps	30%	Sun Care	A water-dispersible silicone polyether with approximate HLB of 4. For (W/O) emulsions. Silube® Sustain J208-612 functions as a more sustainable version of the standard Silube® J208-612.



### Sensory beauty is an extension of today's self-care trend, and there's no sign of it slowing down.

Sensory beauty has transformed the personal care industry, changing how consumers perceive and engage in self-care. This trend has elevated self-care practices by offering multi-dimensional experiences that captivate the senses, enhancing enjoyment and immersion. This heightened engagement encourages consistent prioritization of self-care.

Recognizing that self-care extends beyond physical upkeep, sensory beauty focuses on emotional well-being. Through the use of pleasing scents, textures, and sensations, these products provide an escape from daily stressors, fostering relaxation and contributing to improved mental health. Items like scented candles and bath bombs are designed to alleviate stress and promote relaxation. Sensory beauty promotes mindfulness during self-care routines, encouraging individuals to be fully present in the moment.

Texture and sensory qualities are pivotal factors that shape consumers' preferences when selecting personal care products. These attributes encompass how a product appears, its tactile sensations, its performance, its ability to influence one's mood, and its capacity to create a unique and indulgent "me time" experience.

The personal care industry has evolved to meet the growing demand for sensory beauty products, recognizing that consumers seek both results and enjoyable, emotionally satisfying experiences. Sensory beauty aligns seamlessly with the holistic wellness concept, acknowledging that overall well-being includes physical, emotional, and sensory dimensions. It enriches traditional self-care practices by offering a deeper level of engagement, emotional satisfaction, well-being, reshaping how consumers approach and experience self-care.

Siltech is dedicated to formulating products that enhance the overall sensory experience, with a profound understanding of how sensory factors influence consumer behavior.





### Silicone Polyethers

Dimethicone copolyols are a class of silicone compounds with enhanced water solubility. This attribute is achieved by introducing polyethylene glycol (PEG) and polypropylene glycol (PPG) groups onto the silicone backbone. The proper selection of the silicone backbone and the ratio of PEG/PPG allow for formulation optimization. Products range from water-soluble to water dispersible.

A skin care regimen brings a sense of consistency to consumers daily routine and actively contributes to overall well-being.

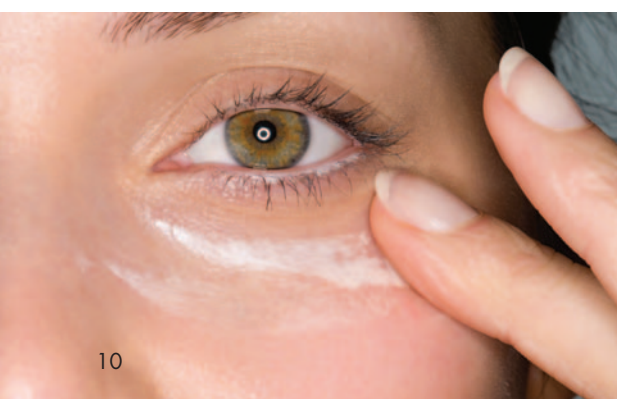
In our fast-paced world, consumers are increasingly embracing skincare routines as a means to enhance their well-being. These routines go beyond cosmetics; they are acts of self-care and self-love. Engaging in them is not solely about improving one's physical appearance; it's a deliberate choice to prioritize mental wellness. Activities like cleansing, moisturizing, and protecting the skin have evolved into mindful rituals that offer relaxation and self-appreciation amidst the chaos of daily life. When you invest in well-formulated, high-quality skincare products it isn't just about pampering the skin; it's an investment in emotional and psychological health. When we feel good on the outside, it often translates to feeling better on the inside. Regular skincare can be a potent tool for enhancing overall well-being.

PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silsurf D212-CG	PEG-12 Dimethicone	Silicone Polyether	Clear liquid, 320 cps	Shampoos, Conditioners, Body Wash	Low odour, water-soluble silicone. Provides transient conditioning while reducing skin irritation of surfactants.
Silsurf J208	PEG-8 Dimethicone	Silicone Polyether	Clear liquid, 600 cps	Shampoos, Conditioners, Body Wash	High molecular weight water-soluble silicone. Provides good conditioning and skin feel. Recommended for body wash applications.
Silsurf B2010	PEG-10 Dimethicone	Silicone Polyether	Clear to hazy liquid, 800 cps	Hair Care, Lotions	PEG-10 Dimethicone surfactant used for (W/O) and silicone-in-water (Si/W) emulsions with an approximate HLB of 4.
Silwax WD-IS	Dimethicone PEG-7 Isostearate	Silicone Isostearate	Clear liquid, 200 cps	Shampoos, Conditioners, Body Wash	Water dispersible silicone ester. Provides lubricity, improved wet comb and conditioning. Recommended for hair care and body wash applications.
Silwax WS-L	Dimethicone PEG-8 Laurate	Silicone Laurate	Clear liquid, 200 cps	Shampoos, Conditioners, Body Wash	Water-soluble silicone ester. Provides good conditioning and gloss to hair without the traditional buildup of oily conditioners. Compatible with a wide range of surfactants. Reduces tack and soapy feel of deodorant sticks. Helps in reducing tack and stickiness in creams and lotions.
Silsurf CR 1115	PEG/PPG-18/18 Dimethicone	Silicone Polyether	Clear liquid, 5,000 cps	Shampoos, Conditioners, Body Wash	High molecular weight silicone polyether. Excellent (O/W) emulsifier for makeup and sunscreens. Used as a hair detangler. Reduces tackiness in various formulas.
Silsurf Di-T108	BIS-PEG-8 PEG-8 Dimethicone	Silicone Polyether Copolymer	Clear liquid, 1,700 cps	Shampoos, Body Wash	Mild surfactant rendering excellent cleansing and luxurious foam. Cleansing properties are similar to sodium laureth sulfate (SLES). The product is considered mild and non-irritating to the skin when used in personal care applications such as hair and body wash.
Silsurf I108	PEG-8 Dimethicone	Silicone Polyether Copolymer	Clear liquid, 1,700 cps	Makeup	Highly water-soluble surfactant and pigment dispersant. Unique vs other PEG-8 dimethicones because of a high degree of incorporation of polyether chains.

### Silicone Wetting Agents

Silicone wetting agents are a specific class of dimethicone copolyols chosen to provide outstanding wetting when added to aqueous formulations at between 0.2% and 0.6% by weight. This improves the product's spreadability and aesthetics.

Silsurf B208	PEG-8 Dimethicone	Silicone Polyether	Clear liquid, 150 cps	Wetting	This series of PEG-8 dimethicone compounds are designed to provide outstanding wetting for skin and hair care products.
Silsurf C208	PEG-8 Dimethicone	Silicone Polyether	Clear liquid, 200 cps	Wetting	



Applying moisturizer and face cream twice a day can support the healing process, turning these regular moments into opportunities to nourish and nurture overall well-being.

These routines serve as valuable checkpoints, continually fostering self-appreciation, which, in turn, radiates as inner beauty. Utilizing well-formulated products benefits skin health, the body, and the mind.





### Cationic Silicones

Adding a cationic group onto the silicone backbone results in improved skin and hair substantivity, which thereby improves wet and dry comb properties and overall conditioning. The presence of the silicone and fatty group on a cationic silicone results in outstanding skin feel, making these materials additives for body washes.



As consumers continue to integrate skincare and wellness routines into their daily lives, along with the use of well formulated products, the trend of "home as a spa" will continue to gain traction.



PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silquat AD	Silicone Quaternium-8	Silicone Dimeramido Quat	Clear liquid, 30 cps	Shampoos, Conditioners, Body Wash	Extremely effective wet and dry comb conditioner. Water-soluble, anionic compatible. Very low eye and skin irritation.
Silquat Di-30-F4D	Quaternium-80	Quaternary Silicone	Clear liquid, 750 cps	Hair Care	Provides conditioning, and soft, silky feel on hair and skin and substantivity in hair. Compatible with anionic surfactants.
Silquat CR 4000	Dimethicone PG-Diethylmonium Chloride (and) Hexylene Glycol	Quaternary Silicone	Clear yellow liquid, 50,000 cps	Shampoos, Conditioners	Excellent hair conditioner for both clear and opaque 2-in-1 shampoos. Does not decrease the viscosity of shampoos and provides excellent wet comb, dry comb, gloss and softness.
Silamine 2972	Bis-Aminopropyl Dimethicone	Silicone Amine	Clear liquid, 3,000 cps	Shampoos, Conditioners, Body Wash	Provides durable softness to hair care products.
Silamine MUE-2	Amodimethicone	Silicone Amine	Hazy liquid, 4000 cps	Hair Care	Provides conditioning, and soft, silky feel on hair and skin and substantivity in hair. Level of clarity lends to suitability for clear 2-in-1 shampoos.
Silquat 4016	Water, Dimethicone-PG Diethylammonium Chloride, Cetrimonium Chloride, and 1,3-propanediol	Quaternary Silicone Blend	Clear liquid, 150 cps	Shampoos, Conditioners	Silquat 4016 is an excellent hair conditioner for both clear and opaque shampoos and provides minimal eye irritation. Due to its positive charge, Silquat 4016 is highly substantive to hair and gives hair extreme softness. It provides excellent wet and dry comb for both shampoos and conditioners. It also reduces flyaway and gives better manageability. This conditioner gives excellent performance at a low cost.
Silquat Di-10	Dimethicone PG-Diethylmonium Chloride (and) Hexylene Glycol	Quaternary Silicones	Clear yellow liquid, 650 cps	Hydro-alcoholic hand sanitizer	Pro-foaming performance complete with improved sensorial on skin.
Silquat Di-25	Dimethicone PG-Diethylmonium Chloride (and) Hexylene Glycol	Quaternary Silicones	Clear yellow liquid, 500 cps	Hydro-alcoholic hand sanitizer	Pro-foaming performance complete with improved sensorial on skin.

### Anionic Silicone

The incorporation of anionic groups onto the silicone backbone creates a new class of surfactants that provide ultra-mild detergency.

Silube CS-1	Dimethicone PEG-8 Succinate	Polymethylsiloxane Succinate	Clear liquid, 3,000 cps	Body Wash	Anionic silicone surfactant for low irritation skin cleansers. Can also be complexed with cationic surfactants.
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### Cationic/Anionic Complexes

The complexing of anionic and cationic silicones results in a new class of compounds that allows for increased deposition on hair and skin. The large size of the resulting salt makes the deposition on hair and skin energetically favourable. This deposition allows for advanced conditioning in shampoos and body washes at levels of between 0.5% and 0.8% by weight. The complex provides outstanding dry conditioning similar to silicone fluids but can be used in clear systems.

SilPlex J2-S	Silicone Quaternium-20	Cationic/Anionic Silicone Complex	Clear liquid, 700 cps	Shampoos, Conditioners Body Wash	Extremely effective wet and dry comb conditioner. Water-soluble, anionic compatible. Very low eye and skin irritation.
SilPlex J2-S-PG	Silicone Quaternium-20	Cationic/Anionic Silicone Complex	Clear liquid, 900 cps	Conditioners	The SilPlex J2-S-PG is reformulated in propylene glycol.
SilPlex 25-S	Silicone Quaternium-24	Cationic/Anionic Silicone Complex	Clear liquid, 500 cps	Shampoos, Conditioners	Extremely effective wet and dry comb conditioner. Water-soluble, anionic compatible. Very low eye and skin irritation.





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## Gum Blends

Silicone resins are formed by cross-linking various silicone compounds. Desired properties can be tailored depending on the degree of crosslink density. Products range from silicone gums to hard resins.



PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Siltech 105	Cyclopentasiloxane (and) Dimethiconol	Silicone Gum in Cyclopentasiloxane	Clear liquid, 6,000 cps	Creams, Lotions	Non-occlusive and highly lubricious when applied to hair and skin. Provides a dry feel for antiperspirants. Recommended for use in hand lotions and other applications where a soft, smooth feel is desired. Excellent detangler for ethnic hair products.
Siltech 1050	Dimethicone (and) Dimethiconol	Silicone Gum in Dimethicone	Clear liquid, 6,000 cps	Creams, Lotions	
Silmer UR-5050	Bis-Hydroxypropyl Dimethicone/ SMDI Copolymer	Silicone Resin	Clear liquid, 6,000 cps	Makeup	High molecular weight silicone-urethane resin that is diluted in isododecane. 45% active. Used as a silicone barrier and film former to impart water repellency and softness in such products as transfer resistant lipsticks, cosmetic creams, and shampoos and conditioners.

## Silicone Elastomer Gels

The addition of solvents to moderately cross-linked silicone resins results in materials suitable for providing moisturization, cushion and barrier properties. Elastomer gels with a low degree of cross-linking exhibit a dry powdery after-feel, while more highly cross-linked gels form breathable rubbery films.

Silmer G-162	Cyclopentasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Silicone Resin	Clear liquid, 400,000 cps	Creams, Lotions, Sun Care, Makeup	Various applications including colour cosmetics, emulsions, powders and sunscreens. Excellent pigment dispersing agent and anhydrous thickener. Provides a dry smooth, silky skin feel, non-greasy. Can be cold processed.
Silmer G-162A	Cyclopentasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Behenyl Dimethicone/ Bis-Vinyldimethicone Crosspolymer	Silicone Resin	Clear liquid, 400,000 cps	Creams, Lotions, Sun Care, Makeup	Modified version of Silmer G-162 with more cushion and play time.
Silmer G-162Q	Cyclopentasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Trimethylsiloxysilicate	Silicone Resin	Clear liquid, 650,000 cps	Creams, Lotions, Sun Care, Makeup	Modified version of Silmer G-162 with a softer, powdery and silky feel. Provides transfer resistance to lipsticks and other pigmented products.
Silmer G-162-F5	Dimethicone (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Silicone Resin	Clear liquid, 700,000 cps	Creams, Lotions, Sun Care, Makeup	Modified version of Silmer G-162, but in a low viscosity dimethicone fluid.
Silmer G-11	Cyclopentasiloxane (and) Polysilicone 11	Silicone Elastomer Gel	Clear gel, 400,000 cps	Makeup, Sun Care, Hair Care	Silicone elastomer gel dispersed in cyclomethicone. Pigment and powder dispersant that adds cushion. Premium sensorial and finishes with a lightweight feel.

### The skinification of hair care

The skinification trend is a new approach to hair care that consists of hair treatments that are similar to your skin. Investing time, effort, and premium skincare ingredients in nurturing your hair is now a common practice.



Consumers hold a strong belief in extending the same standards of health and effectiveness they seek for their skin to their scalp and hair. This approach is entirely logical, as the basis for achieving beautiful hair is rooted in paying meticulous attention to the scalp and meeting its distinct needs. Hair bears structural and property resemblances to our skin, rendering it vulnerable to various stressors, including pollution, over-washing, heat from styling tools, subpar shampoos, and product buildup.

Consumers are driven by the belief that the scalp and hair, like the skin, benefit from personalized and high-quality care.

These factors disrupt the natural balance of the hair and scalp, resulting in an unhealthy state. Given the scalp's intricacy and sensitivity, it requires specialized care. Well-crafted hair care products are vital for a clean scalp, preventing buildup, and maintaining the right oil balance for healthy growth. Siltech chemists develop innovative shampoo formulations, providing strong protection to hair strands and even aiding in damaged hair repair through advanced chemistry for a healthy, glossy appearance.



PERFORMANCE INSPIRED INGENUITY

## Emulsifiers

Siltech's silicone emulsifiers are alkyl dimethicone copolyol compounds. As such, they contain both alkyl groups and PEG/PPG groups on the silicone backbone. The ratio of the alkyl to water-soluble group determines the type of emulsion obtained. These materials are of great interest in making invert emulsions (W/O). Typical uses include sun care products, pigmented products and other skin care products.

### Skinimalism equals minimalism & skin



Skincare is embracing a trend that highlights the importance of moderation, encouraging us to provide our skin with precisely what it needs to stay healthy.

Skinimalism promotes a more natural, minimalist approach to skincare. It simplifies skincare routines by emphasizing a few essentials tailored to an individual's skin type. The philosophy revolves around celebrating the skin's natural beauty and allowing it to radiate without the need for excessive makeup or complex skincare routines. Embracing this trend not only streamlines beauty regimens but also contributes to reducing environmental impact. Our formulations prioritize skin health and eco-consciousness, supporting radiant skin while reducing our ecological impact. As consumer demands evolve towards sustainability, Siltech leads with innovative products, benefiting both our valued partners and the planet.



Keeping a straightforward skincare routine is a beneficial practice.

PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silube J208-212CG	Lauryl PEG/PPG-18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 1,000 cps	Sun Care, Makeup	A water-soluble silicone emulsifier with an approximate HLB of 9. For (O/W) emulsions.
Silube J208-412CG	Lauryl PEG/PPG-18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 800 cps	Sun Care	A water-dispersible silicone emulsifier with an approximate HLB of 7. For (O/W) emulsions.
Silube J208-612	Lauryl PEG/PPG-18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 600 cps	Sun Care	A water-dispersible silicone polyether with an approximate HLB of 5. For (W/O) emulsions.
Silube J208-812	Lauryl PEG/PPG-18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 300 cps	Sun Care	A water-insoluble silicone polyether with an approximate HLB of 3. For (W/O) emulsions.
Silube J208-812CG	Lauryl PEG-8 Dimethicone	Silicone Alkyl Polyether	Clear liquid, 500 cps	Makeup, Sun Care, Creams, Lotions	A water-insoluble silicone polyether with an approximate HLB of 3. For (W/O) emulsions.
Silurf 400R	Cyclopentasiloxane and PEG/PPG-18/18 Dimethicone	Silicone Polyether	Slightly hazy liquid, 500 cps	Creams, Lotions	Silicone delivery system for emollients, moisturizers, sunscreens and pigmented products. 10% active in cyclopentasiloxane. Contains an approximate HLB of 1.
Silube T308-16-CG	Cetyl PEG/PPG-10/1 Dimethicone	Silicone Alkyl Polyether	Clear liquid, 1,400 cps	Makeup, Sun Care, Creams, Lotions	A (W/O) emulsifier with an approximate HLB of 3.
Silube PCH2	Polyglyceryl-4 Isostearate (and) Cetyl PEG/PPG-10/1 Dimethicone (and) Hexyl Laurate	Silicone Polyether	Clear to yellowish liquid, 475 cps	Makeup, Creams, Lotions, Sun Care	Nonionic (W/O) emulsifier with an approximate HLB of 5. Excellent pigment dispersant.
Silube T310-A-16	Cetyl PEG/PPG-10/1 Dimethicone	Silicone Alkyl Polyether	Clear liquid, 1,500 cps	Sun Care	A high molecular weight (W/O) emulsifier with an approximate HLB of 2. Provides thick emulsions for creams, lotions, foundations and sunscreens.
Silube J208-21	PEG-8, PPG-8 Dimethicone	Silicone Polyether	Clear liquid, 600 cps	Sun Care	Approximate HLB of 8. An excellent (O/W) emulsifier, especially for makeup and sunscreen products. The improved lubricity makes emulsions easy to apply. Gives silky skin feel.
Silube J208-81	PEG-8, PPG-8 Dimethicone	Silicone Polyether	Clear liquid, 400 cps	Sun Care	Approximate HLB of 2. An excellent (W/O) emulsifier, especially for creams, foundations, sunscreen products and pigmented products. The improved lubricity makes emulsions easy to apply. Gives silky skin feel.
Silube J1015-O-212	Lauryl PEG 18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 600 cps	Sun Care, Makeup	An emulsifier for (O/W) emulsion systems. Provides very small micelles and very stable emulsions. Especially designed for creams, lotions, foundations and sunscreens. Contains an approximate HLB of 5.
Silube J1015-O-812	Lauryl PEG 18/18 Methicone	Silicone Alkyl Polyether	Clear liquid, 600 cps	Sun Care, Makeup	An emulsifier for (W/O) emulsion systems. Provides very small micelles and very stable emulsions. Especially designed for creams, lotions, foundations and sunscreens. Contains an approximate HLB of 2.

Siltech's commitment to quality skincare formulations aligns perfectly with this skin care trend, emphasizing individual skin needs.



## Product Description

### Invert PEG/PPG-Free Silicone Emulsifier

This invert PEG/PPG-free silicone emulsifier makes (W/O) emulsions, such as creams, liquid foundations, sunscreens, and 2-in-1 BB creams (sunscreen, makeup) while providing novel features and unique textures to the emulsions. It can also be used as a pigment dispersant in colour cosmetics, such as mascara, eye products, lipsticks, lip gloss and mousse foundations, etc. Provides flexibility for both cold and hot processing and enhanced performance at high temperatures.

PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silube 316	TMP Lauryl Dimethicone	Polyhydroxy Silicone	Clear liquid, 700 cps	Sun Care, Makeup, Creams, Lotions	Unique PEG/PPG-free multi-hydroxyl functional silicone, which acts as a medium HLB emulsifier.



Siltech acknowledges the substantial pressure in the cosmetics industry to create formulations that go beyond enhancing consumers' beauty, while also delivering a refreshing experience.

### Cationic Silicone Emulsifier

This unique silicone quaternary product is PEG-free and 70% active in hexylene glycol. Also available in propylene glycol, under the naming designation of "PG". This novel cationic (O/W) silicone emulsifier and conditioner provides excellent skin and hair conditioning with outstanding wet and dry comb. The unique structure and weak cationic charge result in not only excellent emulsification properties, but also conditioning effects on hair and skin – as well as a very lubricious, smooth, powdery feel, with antistatic properties.

This product offers formulators a means to create high-lipophilic, high-SPF and highly pigmented skin care, sun care and makeup products to enhanced consumer benefits all without a greasy feel. Can also be used in colour cosmetics to render a very soft, smooth powdery skin feel while also improving pigment, pearlescent reagents, powder dispersions and better stability. The stearyl content can be modified to generate numerous variations of this product type.

Silquat J2-8B	Distearmonium/ Diethonium Chloride PG Dimethicone	Quaternary Silicone	Clear liquid, 8,000 cps	Shampoos, Conditioners, Creams, Lotions	Imparts excellent sensory properties such as rich, non-greasy, luxurious and very soft, smooth, powdery feel.
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Advancing growth in textured hair care formulations.



The market for textured hair is experiencing exponential growth, driven by consumers embracing their natural hair and adopting personalized routines tailored to their distinct hair types.

Textured hair exhibits unique characteristics that regular hair care products struggle to handle. Issues like dryness, fragile fibers, frizz, and scalp concerns demand a caring and cleansing routine that prioritizes moisturization, repairs damage, and nourishes the scalp.

Siltech formulators are actively engaged in developing effective chemistry to cater to the specific needs of diverse hair types. As consumers seek products that address the intricacies of textured hair, Siltech's commitment to innovative formulations ensures a proactive approach to meeting the evolving needs of the market.



### Regular PEG/PPG-Free Silicone Emulsifiers

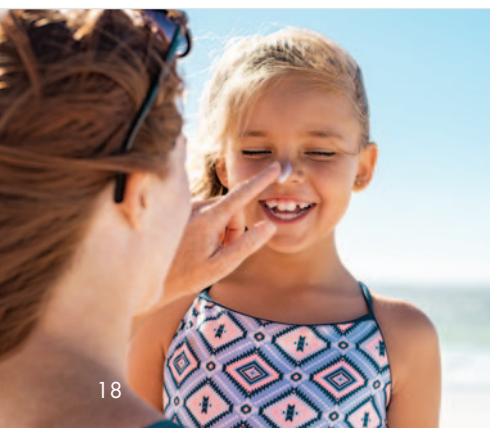
These PEG/PPG-free silicone regular emulsifiers and pigment dispersants provide unique feel properties due to their anionic character. The degree of hydrophilic versus hydrophobic character depends on the functionality present.

Silube CST Di-25	Bis-Succinoyl TMP Dimethicone	Alkyl Dimethicone Copolyol	Slightly hazy liquid, 7,000 cps	Makeup, Sun Care, Creams, Lotions	Anionic water-dispersible PEG-free (O/W) emulsifier providing a unique skin feel ideally suited for soft sponge foundations. This product is also suitable for face creams and body lotions and in hair care, and is suitable for cold processing.
Silube CSO Di-25	Bis-Octenylsuccinoyloxypropyl Dimethicone	Alkyl Dimethicone Copolyol	Clear liquid, 250 cps	Makeup, Sun Care, Creams, Lotions	Anionic water-dispersible PEG-free (O/W) emulsifier ideal for emulsifying natural oils in water. This product is also suitable for creams and body lotions as well as chemical sunscreens due to its increased oil compatibility. Suitable for cold-processing.

Pioneering sunscreen formulation excellence

With a sharp focus on staying up-to-date with the latest trends and advancements in sun care, Siltech continues to lead the way in developing sun care solutions that cater to the ever-evolving needs of consumers.

Siltech formulations play a crucial role in sunscreens by enhancing the product's spreadability, water resistance, and overall user experience. Silicones' hydrophobic properties make sunscreens resistant to water and sweat, increasing their longevity during outdoor activities. Silicones also improve the photostability of UV filters and enhance formulation stability. Additionally, silicones enhance the aesthetics of sunscreens, reducing skin irritation and so making them more comfortable for various skin types.





## Alkyl Dimethicones

Alkyl dimethicone compounds are designed for enhanced oil solubility and to change the feel and aesthetics of personal care products. These are achieved by incorporating oil soluble alkyl and/or aryl groups. The higher the molecular weight and the greater the number of alkyl groups, the higher the melt point and the wax's hardness. The aryl groups increase refractive index and, consequently, gloss.



### The rise of male beauty and personal care

In the ever-changing personal and beauty care industry, where breaking free from gender stereotypes is a priority, more brands are dedicated to crafting products specifically for men. This dedication not only establishes new trends but also opens up exciting market opportunities.

The male grooming sector has expanded beyond basic hygiene products, offering a wide range of personal care items. Today's men's personal care products include fragrances, deodorants, hair care, facial products, and more. Over the past few decades, this diversity has grown to include eye creams, face masks, sunscreen, makeup, and updated packaging to appeal to a new generation of male consumers.



Evolutionizing masculinity for the modern era of men's personal care.



Men are becoming more conscious of aging and interested in anti-aging skincare products. This trend includes products like anti-wrinkle creams and serums.

PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silwax B116	Cetyl Dimethicone	Alkyl Polydimethylsiloxane	Clear liquid, 25 cps	Sun Care, Lipstick	Recommended for sun and skin care. Low viscosity product used in pigment grinds and to boost SPF in sun care products.
Silwax D222	Behenyl Dimethicone	Alkyl Polydimethylsiloxane	Soft wax, 37°C	Lipstick	Used to minimize syneresis and to modify the melt point of pigmented products. Provides an elegant feel.
Silwax J1032	C32 Alkyl Dimethicone	Alkyl Polydimethylsiloxane	Hard wax, 60°C	Lipstick	
Silwax G118	Stearyl Dimethicone	Alkyl Polydimethylsiloxane	Paste solid, 30°C	Makeup, Sun Care	High refractive index provides gloss. Excellent emollient.
Silwax Di-5026	Ceretyl Dimethicone	Alkyl Polydimethylsiloxane	Soft wax, 30°C	Makeup, Creams, Lotions, Sun Care	Provides improved cushion, barrier properties, long-lasting moisturization and reduced trans-epidermal water loss in skin care products. Improves pigment dispersion in colour cosmetic products.
Silwax 3H-MS	Phenylisopropyl Dimethicone	Alkyl Polydimethylsiloxane	Clear liquid, 8,000 cps	Sun Care, Lipstick	Provides gloss and lubricity to hair and skin. Silwax 3H-MS gives the highest lubricity and gloss.
Silwax D0-MS		Alkyl Polydimethylsiloxane	Clear liquid, 100 cps		
Siltech PTM	Phenyl Trimethicone	Alkyl Polydimethylsiloxane	Clear liquid, 30 cps	Hair Care, Creams, Lotions, Sun Care	Exceptional compatibilizer. High refractive index provides gloss. Excellent emollient.
Silwax A02	Ethyl Trisiloxane	Alkyl Polydimethylsiloxane	Clear liquid, 3 cps	Makeup, Sun Care Creams, Lotions, Hair Care	Volatile, low carbon content alkyl methicone ideal for replacing cyclomethicones. Excellent solvent for many formulations and provides the often desired dry after-feel.
Silwax A08-UP	Caprylyl Methicone	Alkyl Polydimethylsiloxane	Clear liquid, 3 cps	Sun Care	Branched trisiloxane polymer offering excellent skin conditioner benefits. Compatible with various organic ingredients. Provides a light, silky smooth sensorial feel on skin.
Silwax D02	Ethyl Methicone	Alkyl Polydimethylsiloxane	Clear liquid, 10 cps	Makeup, Creams, Lotions, Hair Care	Low carbon content alkyl methicone designed to have the dry feel of cyclomethicone. Excellent replacement for D4 and D5. Significantly reduces the surface tension of polar oils, such as triglycerides and esters, making them feel more like volatile silicones.
Silube CR-1	Polydecene (and) Cetyl Dimethicone/ Bis-Vinyldimethicone Crosspolymer	Alkyl Polydimethylsiloxane	Clear liquid, 30 cps	Creams, Lotions, Hair Care	Significantly reduces the surface tension of non-polar oils, such as hydrocarbons, making them feel more like volatile silicones.
Silwax CR-5016	Cetyl Dimethicone/ Bis-Vinyldimethicone Crosspolymer	Alkyl Polydimethylsiloxane	Clear liquid, 500 cps		
Silwax CR-5022	Behenyl Dimethicone/ Bis-Vinyldimethicone Crosspolymer	Alkyl Polydimethylsiloxane	Soft wax, 27°C–31°C	Makeup, Creams, Lotions, Hair Care	Cross-linked alkyl dimethicone. Provides unique feel for skin care products by significantly lowering the surface tensions of various natural oils.



### Multi-Domain Alkyl Dimethicones

The multi-domain are poly-alkylated silicones that contain both liquid and solid alkyl pendant groups on the same molecule. The resulting products are easily spreadable, yet also provide excellent cushion and a long lasting feel.



PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Silwax D221M	Cetyl Hexacosyl Dimethicone	Alkyl Polydimethylsiloxane	Soft white to amber paste. Melt point of 34°C–36°C	Lipstick, Sun Care	Cosmetically elegant products across a wide melting point range. Provide a very soft, glossy feel on the skin. These products have the feel and cushion of petrolatum, but with minimal play time and rapid rub-in leaving a high gloss and no tackiness. Key applications include sun care products to increase SPF, lipsticks, moisturizers, lotions, antiperspirants and deodorants and pigmented products.
Silwax J219M	Cetyl/Cetyl Hexacosyl Dimethicone	Alkyl Polydimethylsiloxane	Soft white to amber paste. Melt point of 28°C–33°C	Lipstick, Makeup	
Silwax J221M	Cetyl Hexacosyl Dimethicone	Alkyl Polydimethylsiloxane	Soft white to amber paste. Melt point of 30°C–34°C	Lipstick, Sun Care	

### MQ Resins and Silsesquioxanes

These silicone MQ resins consist of tetrafunctional silicones that are endcapped with mono functional silicones. These resins can vary in molecular weight and cross-link density. The differences result in physical forms ranging from liquid pourable resins, at low molecular weights, to film-formers at higher molecular weights. The film-forming offerings are provided in solvent for ease of use in application.



The rising interest in skincare, driven by well-being and mental health trends, prompts beauty and personal care brands to redefine body care, diversify skin solutions, and incorporate immune-boosting vitamins, segmenting the market to address unique skin needs.

Silmer Q12 IDD	Trimethylsiloxysilicate (and) Isododecane	Trimethylsiloxysilicate	Clear liquid, 20 cps	Makeup	Renders solid, smooth, powdery feel for color cosmetics. 70% active in Isododecane.
Silmer Q20	Trimethylsiloxysilicate	Trimethylsiloxysilicate	Clear liquid, 250 cps	Makeup, Creams, Lotions, Sun Care	Replaces color dispersion solvents with pure liquid resin in (W/O) or (W/Si) emulsions and in anhydrous color cosmetics. Gives these products better color intensity and stability. Excellent compatibility with various personal care raw materials.
Silmer Q25	Trimethylsiloxysilicate	Trimethylsiloxysilicate	Clear liquid, 160 cps	Creams, Lotions, Sun Care	Versatile pure liquid resin for use in many personal care products to give silky, smooth, powdery skin feel. Excellent compatibility with various personal care raw materials.
Silmer QT9-30-CG	Polymethylsilsesquioxane (and) Isododecane	Silsesquioxane	Clear pale yellow liquid, 25 cps	Makeup	Silicone resin in isododecane provides superior transfer resistance without the worry of a cyclomethicone carrier. Provides a soft, silky after-feel to color cosmetics and skin care products.
Siltech CA Plus	Dimethiconol/ Caprylylsilsesquioxane/ Silicate Crosspolymer	Branched Resin	Clear to light yellow liquid, 80 cps	Makeup, Creams, Lotions, Sun Care	Super-hydrophobic Q-resin modified silane that excels at dispersing pigments and sunscreen filters. Ideally suited for makeup and sunscreens, wherein it imparts water-repellency and emolliency, while also providing a smooth sensorial.

### Polyether Functional MQ Resin

These silicone MQ resins have some of the methyl groups replaced with polyalkylenoxide chains to increase solubility and surface tension reducing properties.

Silsurf Q25315-O	PEG/PPG-12/12 Dimethylsiloxysilicate	Branched Silicone Polyether Trimethylsiloxysilicate	Clear liquid, 550 cps	Creams, Lotions, Sun Care	Cyclomethicone-free (O/W) emulsifier with unique powdery, silky after-feel. Excellent alternative to emulsifiers containing D4/D5/D6 as this product doesn't contain cyclics. Suitable for cold processing.
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Tailored solutions are of paramount importance, as the personal care and cosmetics industry remains highly responsive to the ever-changing demands of today's market.

Siltech continually engages in perpetual research in the development of new cosmetic technologies that align with evolving market trends and applications.



## Product Description

### Non-Silicone

Citrate ester of a guerbet alcohol. This high molecular-weight ester is oil soluble and provides unique wetting properties for pigments for lipsticks and pressed powders.

PRODUCT	INCI NAME	CHEMICAL DESCRIPTION	PHYSICAL FORM & VISCOSITY OR MELT POINT	TYPICAL APPLICATION	COMMENTS
Siltech CE-2000	Trioctylododecyl Citrate	Guerbet Alcohol Citrate Ester	Clear liquid, 200 cps	Creams, Lotions, Makeup, Lipstick, Sun Care	The branching and high molecular weight of this structure lends well to pigment dispersion in lipsticks. This ester also imparts excellent cushion to most formulations and is a good emollient for skin care products

### Silicone Emulsions

These are various silicones emulsified in water.

Siltech E-2145-35	Amodimethicone	Silicone Amine	Milky liquid, 35% active	Conditioners	A 35% active amino silicone emulsified with non-ionic emulsifiers. Provides durable shine and conditioning to hair care and other products. Can be used as is or at diluted concentrations.
Siltech E-2148	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	Silicone Amine	Milky liquid, 30% active	Conditioners	Specially formulated to provide superior condition to hair and skin products. The amino functionality and the cationic emulsifier force the polymer from the emulsion onto these surfaces providing efficacy of use and a soft, long-lasting feel.
Siltech E-2149	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	Silicone Amine	Milky liquid, 30% active	Conditioners	Specially formulated to condition hair and skin products. The amino functionality and the cationic emulsifier force the polymer from the emulsion onto these surfaces providing efficacy of use and a soft, long-lasting feel.

The majority of consumers integrating a skincare routine into their daily rituals is a **positive experience**, with many considering it as cherished "me" time.

### Surging demand for personalized solutions

During the past few years consumers have accelerated the need for personal care and beauty products tailored to their individual preferences.



Unable to access professional salon services, for some time, consumers took matters into their own hands and recreated salon experiences at home.

As personal care and beauty activities improve, the trend of personalization continues to gain momentum, driving consumers to seek out personalized personal care and beauty products. The demand for personalization in the personal care and cosmetics sector has reached unprecedented heights.



The demand for personalization in personal care and cosmetics has never been higher. Consumers, now more than ever, are actively searching for tailored solutions that cater to their unique needs.

Modern consumers are well-informed and discerning, knowing precisely which products they need for skincare, haircare, cosmetics, and fragrance. They desire the flexibility to personalize products in these categories to align with their individual preferences and requirements. In this era of individuality, consumers recognize that a one-size-fits-all approach is no longer suitable, particularly as the definition of beauty has evolved.

This shift has significantly transformed the landscape of personal care products, emphasizing self-expression and accommodating a range of lifestyle factors and values. Personalization in personal care and cosmetics will be a key driver of marketing success, and poised to become a popular standard, driven by consumers' persistent demand across various forms and from all brands.





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