TORONTO HEAD OFFICE, RESEARCH LAB AND PLANT

Siltech Corporation
225 Wicksteed Avenue
Toronto, Ontario, Canada
M4W 1G5
Telephone: 416.424.4567
Facsimile: 416.424.3158

Siltech LLC
1625 Lakes Parkway, Suite O
Lawrenceville, GA
30043
Telephone: 678.442.0210
Facsimile: 678.442.9624

www.siltech.com

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INNOVATIVE SILICONES FOR THE PERSONAL CARE INDUSTRY
Since its inception in 1989, Siltech has been actively developing materials for use in the personal care market. During this time silicone compounds have become an increasingly important segment of products for creating innovative new technologies.

As formulations and products become more advanced, the understanding of the underlying properties of the increasing number of organo-functional silicones has become more difficult. While sophisticated silicones are used to improve various functional attributes such as wetting, foaming, conditioning, emulsification, film formation, tactile modification, gloss, dispersing and several others, selecting the correct silicones can be daunting. To address this problem Siltech has developed a system called Select-a-Sil®. It is based upon the principle that in order to be functional, ingredients need to be determined. In order to facilitate these selections, Siltech has developed a number of "kits" that allow for rapid screening of silicones by application. Specifically, kits for wetting and emulsification allow the user to quickly screen the effects of a given material in the finished formulation.

Siltech offers a line of standard personal care products, along with many formulations and technical presentations. Additionally, our chemists work jointly with customers developing specific molecules and products for individual applications. We also address customer problems that can only be solved by exploring new technologies. Such cooperative agreements have proven very useful in developing many new and innovative cosmetic applications.

As silicones continue to play an increasing role in the formulation of new and novel personal care products, Siltech remains committed to lead the development of unique and sophisticated products for this growing industry.
Silicone compounds must be Formulator Friendly®. Selecting the proper silicone for a particular formulation starts with identifying the specific attributes that are desired. Since its inception in 1989, Siltech has been actively developing materials for use in the personal care market. During this time silicone compounds have become an increasingly important segment of products for creating innovative new technologies.

Once the attributes are defined, other formulation issues such as solvent type, concentrations and interaction between ingredients need to be determined. In order to facilitate these selections, Siltech has developed a number of “kits” that allow for rapid screening of silicones by application. Specifically, kits for wetting and emulsification allow the user to quickly screen the effects of a given material in the finished formulation.

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**SILTECH PRODUCT SELECTION GUIDE**

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- **SOFTNESS**
  - Silquat J28-PG Silmor Q25
  - Silquat J28-18 Silmor CR 1115
  - Silmor WD-5 Silmor CR 1115

- **DETERGENCY**
  - Silborne CS-1

- **COOLING**
  - Silborne CR-5016
  - Silborne CR-5021

- **BODY WASH**
  - Silmor CR-2000
  - Silmor Q20

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- **LONG WEAR**
  - Silmor CR-250
  - Silmor J2-28

- **SOFTNESS**
  - Silmor CR-502

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- **PROCESSING AID**
  - Silmor CR-2000

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- **CREAMS & LOTIONS**
  - Silmor 400R
### Silicone Polyether

Dimethicone copolylols are a class of silicone compounds with enhanced water solubilities. 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 from water soluble to water dispersible, allow for formulation optimization. Products range from water soluble to water dispersible.

- **Silsurf D212-CG**: Silicone Polyether PEG-12 Dimethicone, Clear liquid, 320 cps
- **Silsurf J208**: Silicone Polyether PEG-8 Dimethicone, Clear liquid, 600 cps
- **Silwax WD-81**: Silicone Isostearate Dimethicone PEG-8 Isostearate, Clear liquid, 200 cps
- **Silwax W54**: Silicone Laurate Dimethicone PEG-8 Laurate, Clear liquid, 200 cps
- **Silwax CR 1115**: Silicone Polyether PEG/PPG-18/18 Dimethicone, Clear liquid, 5,000 cps

### Silicone Wetting Agents

Silicone wetting agents are a specific class of dimethicone copolylols 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 A208**: Silicone Polyether PEG-8 Dimethicone, Clear liquid, 90 cps
- **Silsurf B208**: Silicone Polyether PEG-8 Dimethicone, Clear liquid, 150 cps
- **Silsurf C208**: Silicone Polyether PEG-8 Dimethicone, Clear liquid, 200 cps

### Cationic Silicone

Adding a cationic group onto the silicone backbone results in improved skin and hair substantivity, which thereby improves wet and dry comb properties and 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.

- **Silquat AD**: Silicone Dimeramido Quat Silicone Quaternium-8, Clear liquid, 30 cps
- **Silquat J208-1B**: Quaternary Silicone Polyether PEG-8 Diethylammonium Chloride PG-Dimethicone, Clear liquid, 300 cps
- **Silquat CR4000**: Quaternary Silicone Dimethicone-PG Diethylammonium Chloride (and) Hexylene Glycol, Clear yellow liquid, 25,000 cps
- **Silquat 2972**: Silicone Amino Amodimethicone, Clear liquid, 1,000 cps
- **Silquat 4016**: Quaternary Silicone Blend Dimethicone-PG Diethylammonium Chloride (and) Hexylene Glycol (and) Cetyltrimethylammonium Chloride (and) Water, Clear liquid, 150 cps

### Anionic Silicone

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

- **Silsbet CS-1**: Polyglyceryl/decylamidocaprylyl Succinate Dimethicone PEG-8 Succinate, Clear liquid, 3,000 cps

### Chemical Description

- **PEG**: Polyethylene glycol
- **PPG**: Polypropylene glycol
- **Amodimethicone**: Dimethiconol-Polyglycerol-Polyethylenglycol-Polyglycerol-Polyglycerol-Dimethiconol

### Physical Form & Viscosity or Melt Point

- **Clear liquid**: Viscosity
- **Mineral Oil**: Compressibility
- **Isopropanol**: Incompatibility
- **Isopropyl Myristate**: Incompatibility
- **Dimethicone Fluid 550 cps**: Viscosity
- **Cyclohexane**: Solubility

### Solubility @ 1% / 10%

<table>
<thead>
<tr>
<th>Water</th>
<th>Mineral Oil</th>
<th>Isopropanol</th>
<th>Isopropyl Myristate</th>
<th>Dimethicone Fluid 550 cps</th>
<th>Cyclohexane</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
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</tr>
</tbody>
</table>

### Comments

- Low odor water soluble silicone. Provides transient conditioning while reducing skin irritation of surfactants.
- Water dispersible silicone water. Provides good conditioning and skin feel. Recommended for body wash applications.
- Water soluble silicone water. Provides good conditioning and gloss to hair without the traditional build-up of oily conditioners. Compatible with a wide range of surfactants. Reduces tack and soapy feel of the deodorant sticks. Helps in reducing tack and stickiness in creams and lotions.
- High molecular weight silicone polyether that is an excellent O/W emulsifier for make-up and sunscreens. Used as a hair detangler. Reduces tachiness in various formulations.
Cationic/Anionic Complex

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.

Resins

Siltech 105
Silicone gum in Cyclopentasiloxane
Cyclopentasiloxane (and) Dimethiconol
Clear liquid, 6,000 cps
II I I I I I S S S
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
Silicone gum in Dimethicone
Dimethicone (and) Dimethiconol
Clear liquid, 6,000 cps
II I I I I S S S S
Silicone Resin

Silmer G-162
Silicone Resin
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer
Clear liquid, 400,000 cps
II I I I I D D S
Various applications including color 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
Silicone Resin
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Polydecane (and) Cethylmethicone/Crosspolymer
Clear liquid, 400,000 cps
II I I I I D D S
Modified version of Silmer G162 with more cushion and play time.

Silmer G-162F
Silicone Resin
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Perfluorovinyl Dimethicone
Clear liquid, 400,000 cps
II I I I I D D S
Modified version of Silmer G162 with a softer and slipperier feel. Forms a thinner morespreadable film.

Silmer G-162Q
Silicone Resin
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Trimethoxyxysilicate
Clear liquid, 400,000 cps
II I I I I D D S
Modified version of Silmer G162 with a more soft, powdery and silky feel. Provides transfer resistance to lipsticks and other pigmented products.

Silmer G-162F5
Silicone Resin
Dimethicone (and) Dimethicone/ Vinyl Dimethicone Crosspolymer
Clear liquid, 400,000 cps
II I I I I S S I
Modified version of Silmer G162, but in a low viscosity dimethicone fluid.

Silmer UR-5050
Silicone Resin
Butyrylpropyl Dimethicone/SMDI Copolymer
Clear liquid, 6,000 cps
II I I S S S D I S
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 in shampoos and conditioners.

Cationic/Anionic Silicone Complex

Formulator Friendly® products created through the Select-a-Sil® system
**Emulsifiers**

Siltech’s silicone emulsifiers are alkyl dimethicone copolyol compounds. As such they contain both alkyl groups and PEG 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 (water in oil).

Typical uses include sun care products, pigmented products and other skin care products.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CHEMICAL DESCRIPTION</th>
<th>INCI NAME</th>
<th>PHYSICAL FORM &amp; VISCOSITY OR MELT POINT</th>
<th>SOLUBILITY 1% /10%</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silasurf 400R</td>
<td>Silicone Polyether</td>
<td>Cyclopentasiloxane and PEG/PPG-18/18 Dimethicone</td>
<td>Slightly hazy liquid, 500 cps</td>
<td>I I I I S S S S S S D S</td>
<td>Silicone delivery system for emollients, moisturizers, sunscreens and pigmented products.10% active in cyclopentasiloxane.</td>
</tr>
<tr>
<td>Silube T308-16</td>
<td>Silicone Alkyl Polyether</td>
<td>Cetyl PEG/PPG-10/1 Dimethicone</td>
<td>Clear liquid, 800 cps</td>
<td>I I S S S S S S I S D</td>
<td>A water-in-oil emulsifier with an approximate HLB of 3.</td>
</tr>
<tr>
<td>Silube T308-16CG</td>
<td>Silicone Alkyl Polyether</td>
<td>Cetyl PEG/PPG-10/1 Dimethicone</td>
<td>Clear liquid, 1,400 cps</td>
<td>I I S S S S S S I S D</td>
<td>A water-in-oil emulsifier with an approximate HLB of 3.</td>
</tr>
<tr>
<td>Silube J208-21</td>
<td>Silicone Polyether</td>
<td>PEG-8, PPG-8 Dimethicone</td>
<td>Clear liquid, 600 cps</td>
<td>S S I I S S I I I I I I</td>
<td>Approximate HLB of 8. An excellent oil-in-water emulsifier; especially for makeup and sunscreen products. The improved lubricity makes emulsions easy to apply. Gives silky skin feel.</td>
</tr>
</tbody>
</table>

**constantly innovate to provide new product solutions**
**DESCRIPTION**

**PRODUCT**

**CHEMICAL DESCRIPTION**

**INCI NAME**

**PHYSICAL FORM & VISCOSITY OR MELT POINT**

**SOLUBILITY @ 1%/10%**

**COMMENTS**

### PEG/PPG-Free Silicone Emulsifier

This PEG/PPG-free silicone invert 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 color cosmetics such as mascaras, eye products, lipsticks, lip gloss and mouse foundations, etc. Provides flexibility for both cold and hot processing and enhanced performance at high temperatures.

**Silvarex 316**

Polyhydroxy Silicone

TMP Lauryl Dimethicone

Clear liquid, 700 cps

**SOLUBILITY**

Water: S S S S D D D

Mineral Oil: S S S S D D D

Isopropl Alcohol: S S S S D D D

Isopropl Myristate: S S S S D D D

Dimethicone Fluid 300 cps: S S S S D D D

Cyclo- methicone: S S S S D D D

**COMMENTS**

Unique PEG/PPG-free multihydroxyl functional silicone which acts as a medium HLB emulsifier.

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### Cationic Silicone Emulsifiers

Unique Silicone Quaternary that is PEG free and 70% active in Propylene Glycol. These products are also available in Hexylene Glycol.

**Silquat JD-2B-PG**

Quaternary Silicone

Disodium/Dimethonium Chloride PG Dimethicone

Clear liquid, 3,000 cps

**SOLUBILITY**

SD S S S S D D D

**COMMENTS**

Imports excellent sensory properties such as rich non-greasy, luxurious and very soft smooth powdery feel. Excellent detangler for ethnic hair products.

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### Fluorosilicone

The inclusion of fluoro moieties onto the silicone backbone results in improved slip, spreadability and skin feel. These materials are of great interest in making pigmented products as they coat the pigment and thereby allow for a uniform film upon application. Fluoro silicones are also used in lipstick top-coat products.

**Fluorasil J15**

Fluorinated Polymethylsiloxane

Perfluorocyclohexyl Dimethicone

Clear liquid, 300 cps

**SOLUBILITY**

Water: I I I D D S S S S S

Mineral Oil: I I I D D S S S S S

Isopropl Alcohol: I I I D D S S S S S

Isopropl Myristate: I I I D D S S S S S

Dimethicone Fluid 300 cps: I I I D D S S S S S

Cyclo- methicone: I I I D D S S S S S

**COMMENTS**

Fluorinated silicone. Superior slip and lubricity in skin care and pigmented product applications.

**Fluorasil L118**

Fluorinated and Alkylated Polydimethylsiloxane

Perfluorooctyl Stearyl Dimethicone

Off-white lubricious paste, 30°C

**SOLUBILITY**

Water: I I S S D D S S S

Mineral Oil: I I S S D D S S S

Isopropl Alcohol: I I S S D D S S S

Isopropl Myristate: I I S S D D S S S

Dimethicone Fluid 300 cps: I I S S D D S S S

Cyclo- methicone: I I S S D D S S S

**COMMENTS**

Fluorinated alkyl silicone. Superior slip and lubricity for use in pigmented product applications. Melt point modifier.
**Alkyl Dimethicone**

Alkyl dimethicone compounds are designed for enhanced oil solubility and to change the feel and aesthetics of personal care products. This is 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.

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<tbody>
<tr>
<td>Silwax B116</td>
<td>Alkyl Polydimethylsiloxane Cetyl Dimethicone</td>
<td>Clear liquid, 25 cps</td>
<td>I I S S I I S S I I S S</td>
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<tr>
<td>Silwax H416</td>
<td>Alkyl Polydimethylsiloxane Cetyl Dimethicone</td>
<td>Clear liquid, 110 cps</td>
<td>I I S S I I S S I I S S</td>
<td></td>
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<tr>
<td>Silwax D222</td>
<td>Alkyl Polydimethylsiloxane Behenyl Dimethicone</td>
<td>Soft wax, 37°C</td>
<td>I I S I I I I I I I I S D</td>
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<tr>
<td>Silwax J1032</td>
<td>Alkyl Polydimethylsiloxane C32 Alkyl Dimethicone</td>
<td>Hard wax, 60°C</td>
<td>I I S S I I I I I I I S D</td>
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<tr>
<td>Silwax 3HMS</td>
<td>Alkyl Polydimethylsiloxane Phenyl Isopropyl Dimethicone</td>
<td>Clear liquid, 8,000 cps</td>
<td>I I S S S S S S S S S S S S S S S S</td>
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<tr>
<td>Silwax DOMS</td>
<td>Alkyl Polydimethylsiloxane</td>
<td>Clear liquid, 100 cps</td>
<td>I I S S S S S S S S S S S S S S S S</td>
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<tr>
<td>Silwax D02</td>
<td>Alkyl Polydimethylsiloxane Ethyl Methicone</td>
<td>Clear liquid, 10 cps</td>
<td>I I S S S S S S S S S S S S S S S S</td>
<td></td>
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</tr>
<tr>
<td>Silwax CR-1</td>
<td>Alkyl Polydimethylsiloxane Polydimethacrylate &amp; Cetyl/dimethicone/ Bis Vinylmethicone Crosspolymer</td>
<td>Clear liquid, 30 cps</td>
<td>I I S S S S S S S I I S S</td>
<td></td>
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</tr>
<tr>
<td>Silwax CR-5016</td>
<td>Alkyl Polydimethylsiloxane Cetyl dimethicone/ Bis Vinylmethicone Crosspolymer</td>
<td>Clear liquid, 500 cps</td>
<td>I I S S I I I I I I S S</td>
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</tr>
<tr>
<td>Silwax CR-5022</td>
<td>Alkyl Polydimethylsiloxane Behenyl dimethicone/ Bis Vinylmethicone Crosspolymer</td>
<td>Soft wax, 27.31°C</td>
<td>I I S S I I I I I I S S</td>
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</table>

**Silwax 3HMS** gives the highest lubricity and gloss.

**Multi-Domain Alkyl Dimethicone**

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.

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<tr>
<td>Silwax D229M</td>
<td>Alkyl Polydimethylsiloxane Cetyl/Hexaacyl Dimethicone</td>
<td>Soft white to amber paste, Melt point of 34-36°C</td>
<td>I I I I I I I I I I I</td>
<td></td>
<td>A cosmetically elegant product with a wide melting point range. Provides a very soft glossy feel on the skin. Has the feel and cushion of petrolatum, but with minimal playtime and so rapidly disappears to leave a high gloss and no tack. Key product applications include sun care products to increase SPF, lipsticks, moisturizers, lotions, antiperspirants and deodorants and pigmented products.</td>
</tr>
<tr>
<td>Silwax J219M</td>
<td>Alkyl Polydimethylsiloxane Cetyl/Hexaacyl Dimethicone</td>
<td>Soft white to amber paste, Melt point of 28-33°C</td>
<td>I I I I I I I I I I I</td>
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<td></td>
</tr>
<tr>
<td>Silwax J220M</td>
<td>Alkyl Polydimethylsiloxane Cetyl/Hexaacyl Dimethicone</td>
<td>Soft white to amber paste, Melt point of 30-34°C</td>
<td>I I I I I I I I I I I</td>
<td></td>
<td></td>
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</tbody>
</table>
Siltech E-21 45 - Milky liquid, 35% active Silicone Amine Amodimethicone. A 35% active amino silicone emulsified with non-ionic emulsifiers. Provides a durable shine and conditioning to hair care and other products. Can be used as is or at diluted concentrations.

Siltech E-21 48 - Milky liquid, 30% active Silicone Amine Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride. Especially formulated to provide superior condition to hair and skin products. The amino functionality as well as the cationic emulsifier forces the polymer from the emulsion onto these surfaces providing efficacy of use and a soft long lasting feel.

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MQ Resins
These silicone MQ resins consist of tetrafunctional silicones that are endcapped with mono-functional silicones. These resins can vary in molecular weight and crosslinking density so that they can vary from liquid pourable resins at low molecular weight to film formers which are provided in solvent at higher molecular weights and crosslink densities.

Silmer Q12 IDD - Trimehyl oligosilicate (and) Isododecane. Provides a solid, smooth powdery feel for color cosmetics. 70% active in isododecane.

Silmer Q20 - Trimehyl oligosilicate (and) Isododecane. 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 Q25 - Trimehyl oligosilicate (and) Isododecane. Because of its branched structure and high molecular weight, this resin provides excellent cushion to lipsticks. Good emollient for skin care products with very low irritation.

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.

Siltech CE-2000 - Guerbet Alcohol Citrate Ester. Provides a solid, smooth powdery feel for color cosmetics. 70% active in Isododecane.

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Silmer Q12 IDD - Trimehyl oligosilicate (and) Isododecane. Provides a solid, smooth powdery feel for color cosmetics. 70% active in isododecane.

Silmer Q20 - Trimehyl oligosilicate (and) Isododecane. 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 Q25 - Trimehyl oligosilicate (and) Isododecane. Because of its branched structure and high molecular weight, this resin provides excellent cushion to lipsticks. Good emollient for skin care products with very low irritation.

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.

Siltech CE-2000 - Guerbet Alcohol Citrate Ester. Provides a solid, smooth powdery feel for color cosmetics. 70% active in Isododecane.

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Siltech Corporation
225 Wicksteed Avenue
Toronto, Ontario, Canada
M4H 1G5
Telephone: 416.424.4567
Facsimile: 416.424.3158

Siltech LLC
1625 Lakes Parkway, Suite O
Lawrenceville, GA 30043
Telephone: 678.442.0210
Facsimile: 678.442.9624

www.siltech.com

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