VELVESIL* Mul-T gel

SPECIALTY FLUIDS - PERSONAL CARE

Assigned INCI Name: Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone crosspolymer

Velvesil Mul-T gel is an excellent starting point to consider for a large variety of multi-claim formulations. Due to its silicone composition, it can deliver a luxurious feel, enhance natural coverage, and minimize the appearance of fine lines and wrinkles. Velvesil Mul-T gel is able to be quickly and easily combined with additional ingredients, and may be considered for use in a plethora of multi-benefit personal care products.

This new Mul-T gel is a highly versatile material that combines the potent, translucent soft-focus ability of boron nitride with the powdery, velvety touch of patented Velvesil chemistry. The addition of a spreading agent greatly improves the dispersion of boron nitride within the gel matrix for a more natural-looking, even-tone skin finish. Consumers may instantly discover the soft focus benefit in cosmetic formulations made with this patented technology.

By adjusting the base, a variety of new textures can be achieved, ranging from cushioning to creamy, from custard-like to rich and whipped. Velvesil Mul-T gel can also be combined with powders, pigments and oils (including fragrance) to create an assortment of visual effects, or with other active ingredients for instant and long-term benefits.

Key Features & Typical Benefits

- Cushioning texture for enhanced sensory feel without tack
- Soft, powdery sensory experience
- Fast rub-in
- Natural looking, instant soft focus effect
- Excellent slip for ease of application
- Simplified incorporation of boron nitride in formulations
- Powdery and lubricious feel when used as a binder for pressed powders and color cosmetics
- Ability to thicken the oil phase

Potential Applications

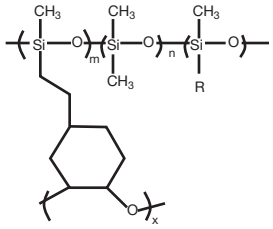
- **Color Cosmetics**
  - BB & CC creams
  - Eye shadow
  - Foundations
  - Make-up primers
- **Skin Care**
  - Anti-aging creams/lotions
  - W/O, O/W, W/Si emulsions
- **Oil Absorption**
  - Anti-acne products
  - Shine control
- **Sun Screens**
  - After-sun care
  - SPF with physical/organic UV absorbers
- **Anhydrous Products**
  - Serums
  - Eyeliner
  - Concealer sticks
  - Pressed powders

Typical Physical Properties[1]	
Appearance	White, gel powder
% Solid	28 - 30%
D4	< 1000 ppm
D5	< 1000 ppm

(1) Typical properties are average data and are not to be used as or to develop specifications.

Chemistry

Velvesil 034 organosilicone gel

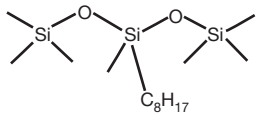


3D swollen crosslinked Silicone network

Softouch* boron nitride

Soft focus effect

Silsoft* 034 organosilicone fluid



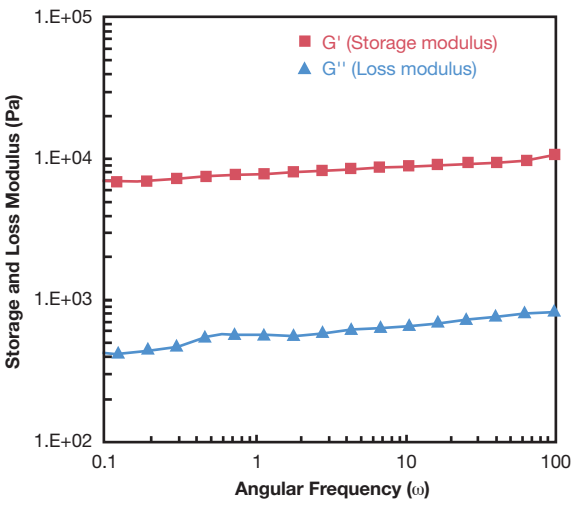
Dispersing aid

Velvesil Mul-T gel is a highly-structured gel of Velvesil crosspolymer and boron nitride particles. The blend of Momentive Softouch boron nitride and the Velvesil crosspolymer gel matrix optimizes the natural coverage and long-wear properties of the boron nitride, while significantly improving the dispersion, spreadability and luxurious sensorial experience of personal care products.

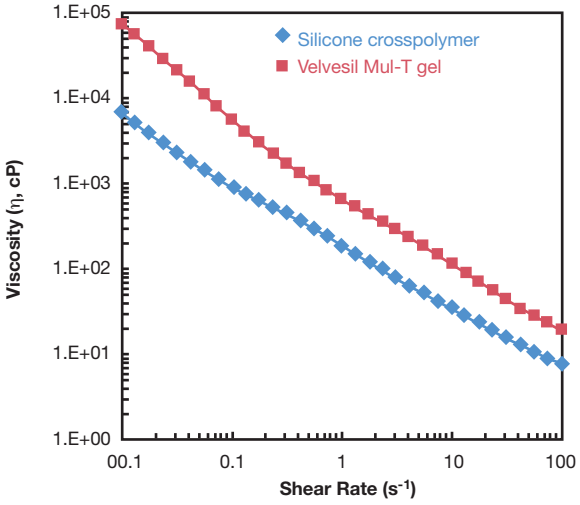
Typical Properties

Velvesil Mul-T gel exhibits higher storage modulus (G') than loss modulus (G") (G' >> G"), over all frequency ranges. This indicates that the gel microstructure is a permanent elastic structure; see Figure 1(a). The Velvesil Mul-T gel has a shear thinning flow behavior as observed by a decrease in viscosity with shear rate; see Figure 1(b). In comparison to a silicone crosspolymer, the shear thinning behavior of Velvesil Mul-T gel is enhanced by the addition of boron nitride particles. Once shearing is stopped, the gel microstructure recovers back immediately. Recovery of the gel microstructure builds up the viscosity. The recovery of viscosity is a necessary requirement and preferred attribute for many personal care formulations.

Figure 1: (a) frequency sweep, and **(b)** shear thinning flow behavior of Velvesil Mul-T gel and silicone crosspolymer.



(a)



(b)

Note: Test results. Actual results may vary.

*Velvesil, Softouch and Silsoft are trademarks of Momentive Performance Materials Inc.

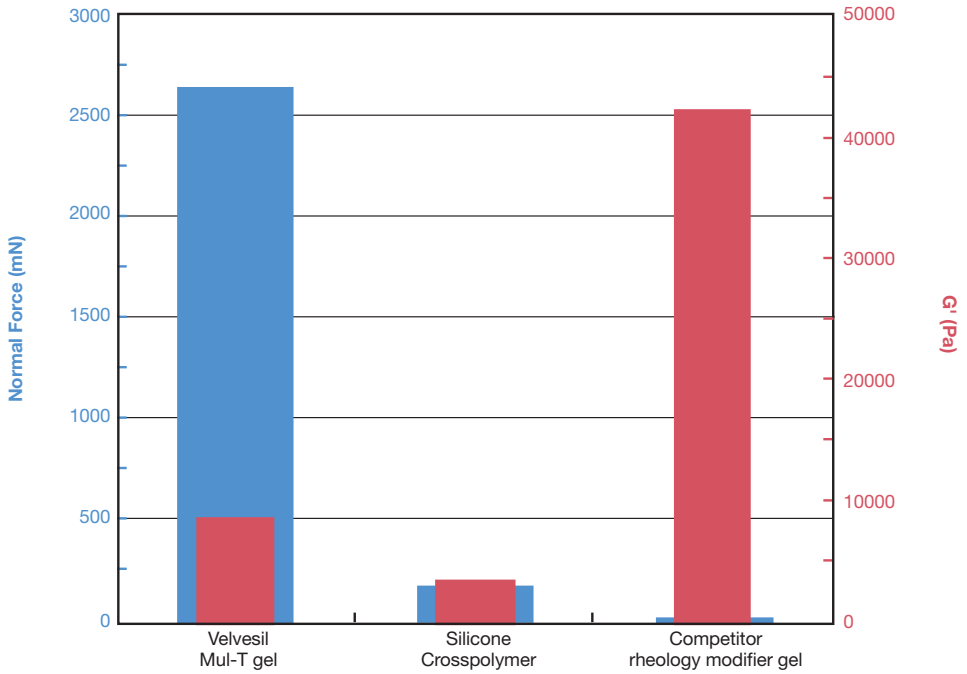
Test Performance Data

1. Cushioning Feel During Application

The normal force during high shear (for example rub-in on skin) can be translated into the cushioning texture. The cushioning feel is characterized by an Anton Paar MCR 301 rheometer. Normal force during high shear (100 s^{-1}) is measured and is correlated to the cushioning feel.

- Velvesil Mul-T gel is a structured solid-like gel (G' >> G").
- Unlike other rheology modifying gels, Velvesil Mul-T gel typically exhibits high normal force at high shear rates indicating high cushioning effect.
- As compared to silicone crosspolymer, the addition of boron nitride particles to Velvesil Mul-T gel typically increases the normal force at high shear.

Figure 2: Normal force and G' measurements of the Velvesil Mul-T gel, the silicone crosspolymer and a rheology modifier.



The Velvesil Mul-T gel has been observed to provide a superior cushioning feel in comparison to a traditional silicone crosspolymer or other rheology modifying gels.

Note: Test results. Actual results may vary.

Test Performance Data (continued)

2. Soft Focus Effect

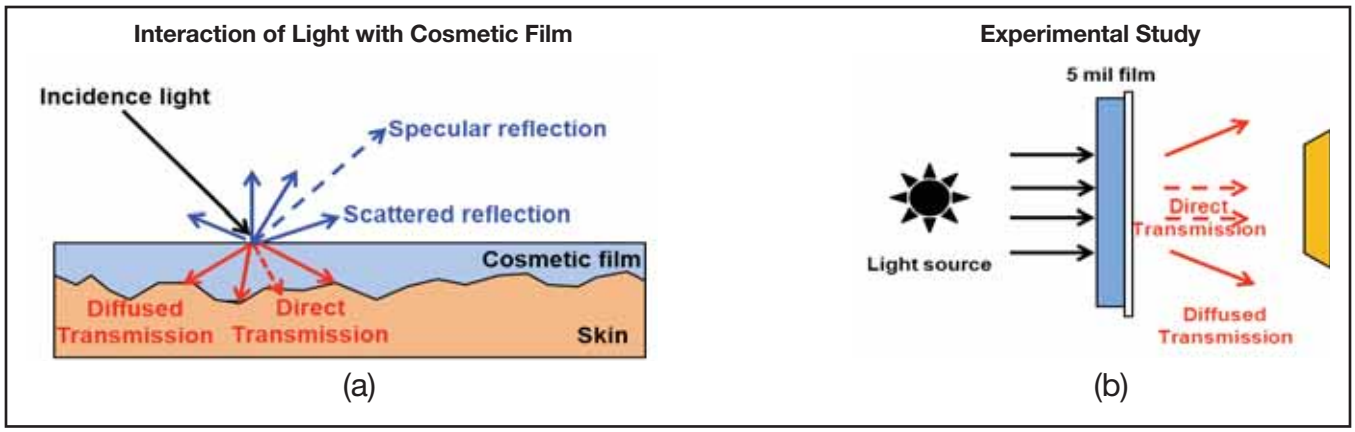
Momentive Softouch* boron nitride can impart an excellent soft focus effect. When it is dispersed within the Velvesil crosspolymer, also known for blurring fine lines and wrinkles, there is a synergistic effect by which enhanced smoothness and improved complexion can be achieved.

When light interacts with a cosmetic film on skin, part of the light is transmitted and part is reflected. Both the transmitted and reflected light have two components:

Total transmission = direct transmission + diffused transmission

Total reflection = specular reflection + scattered reflection

Figure 3: (a) Schematic of interaction of light with skin **(b)** Schematic of the experimental set up for studying optical properties of Velvesil Mul-T gel.



Soft focus effect is achieved when both the diffused transmission and scattered reflection are maximized.(1)

(1) "Quantification of the soft-focus effect" R. Emmert, Cosmetics and Toiletries mag., 111, 57-61, 1996

To quantify the soft focus effect, a simple W/O emulsion was formulated:

Table 1: W/O emulsion formulated to study the optical properties of Velvesil Mul-T gel.

Component	INCI	%
Velvesil Mul-T gel	Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	10.00
SF 1202	Cyclopentasiloxane	18.75
SilForm* 60-A emulsifier	PEG/PPG-20/15 Dimethicone (and) Diisopropyl Adipate	1.70
DI water	Water	69.55

Product formulations are included as illustrative examples only. Momentive makes no representation or warranty of any kind with respect to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

Test Performance Data (continued)

Optical properties of the film (transmittance and reflectance) were measured using a Color-Eye 7000A spectrophotometer.

Figure 4: Transmittance and reflectance from a film of Velvesil Mul-T gel measured by Color-Eye 7000A.

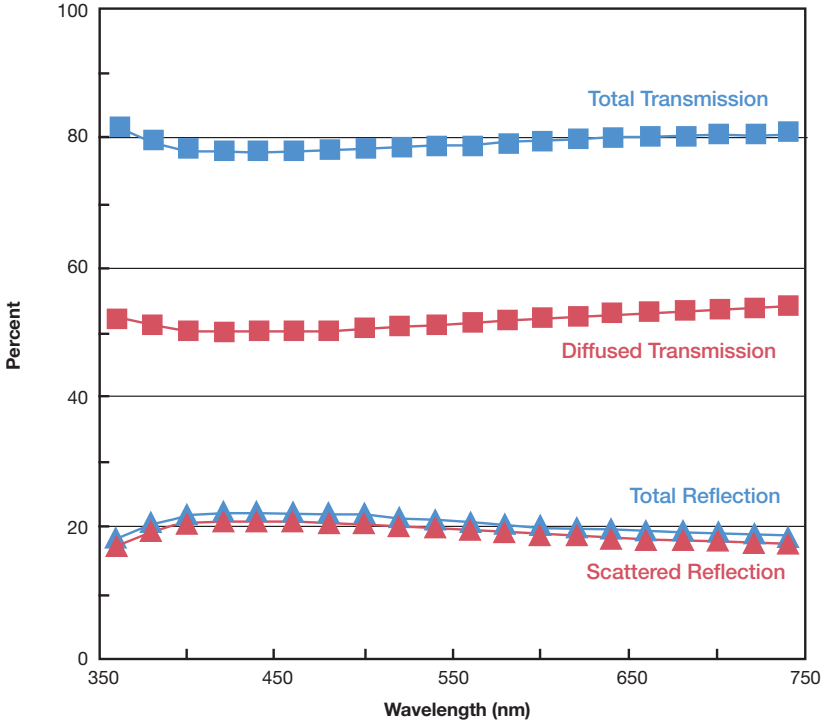


Figure 4 shows the transmission and reflection data of the film. The diffused transmission and scattered reflection were quantified in the following way.

$$\% \text{ Diffused transmission} = \frac{\text{Diffused transmission}}{\text{Total transmission}} = \frac{52}{79} = 66\%$$

$$\% \text{ Scattered reflection} = \frac{\text{Scattered reflection}}{\text{Total reflection}} = \frac{20}{21} = 95\%$$

Velvesil Mul-T gel provided 66 percent of the transmitted light as diffused transmission and 95 percent of the reflected light as scattered reflection. This indicates that Velvesil Mul-T gel may provide excellent soft focus results while preserving the natural appearance of skin.

The synergistic soft focus benefits of Velvesil gel and boron nitride are highlighted in Velvesil Mul-T gel.

Note: Test data. Actual results may vary.

Test Performance Data (continued)

3. Sheer Coverage

The complex dispersion of Momentive Softouch* boron nitride within the Velvesil gel matrix can deliver an unexpected coverage that is not seen when boron nitride or Velvesil gel is used alone.

The enhanced performance was observed in eye shadow formulations. Two eye shadows are shown in Table 2. The eye shadows were formulated with and without Velvesil Mul-T gel.

Table 2: Eye shadow formulation with Velvesil Mul-T gel used for studying sheer coverage.

Component	INCI	%
SF 1214	Cyclopentasiloxane (and) Dimethicone	10.00
Jojoba oil	Simmondsia Chinensis (Jojoba) Seed oil	12.00
Tocopherol acetate	Tocopherol acetate	3.00
Timica Golden Bronze 240A	Mica (and) Titanium Dioxide (and) Iron Oxides	40.00
Velvesil Mul-T gel	Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	35.00

Equal amounts of two eye shadows were applied on synthetic leather in the comparison below. As seen in the Figure 4, the eye shadow with Velvesil Mul-T gel showed better coverage.

Figure 4: Photographs of eye shadows; (1) with Velvesil Mul-T gel and (2) with silicone crosspolymer applied to synthetic leather.

High resolution imaging of the synthetic leather and the leather with two eye shadows was obtained using Visioscan VC 98 from Courage + Khazaka.

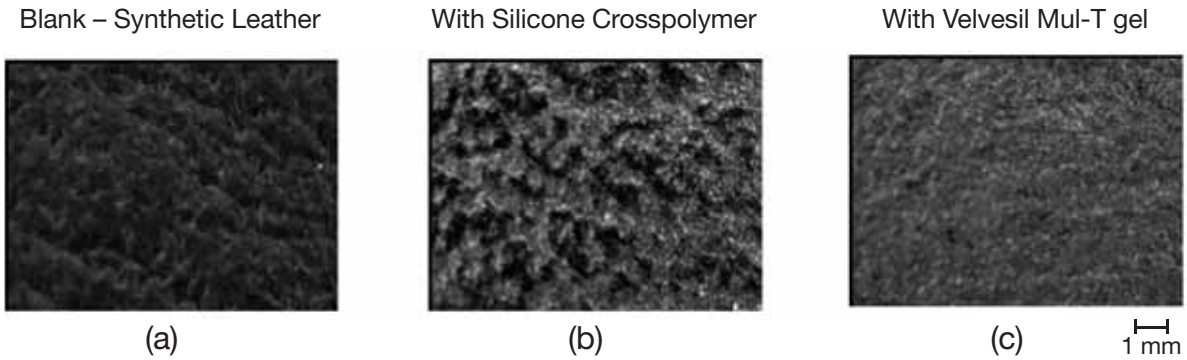
Product formulations are included as illustrative examples only. Momentive makes no representation or warranty of any kind with respect to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

Note: Test results. Actual results may vary.

*Velvesil and Softouch are trademarks of Momentive Performance Materials Inc.

Test Performance Data (continued)

Figure 5: The high resolution image in (a) shows blank synthetic leather; the images in (b) and (c) show eye shadow formulations applied to synthetic leather. The eye shadow in (b) was formulated with silicone crosspolymer and eye shadow in (c) was formulated with Velvesil Mul-T gel.



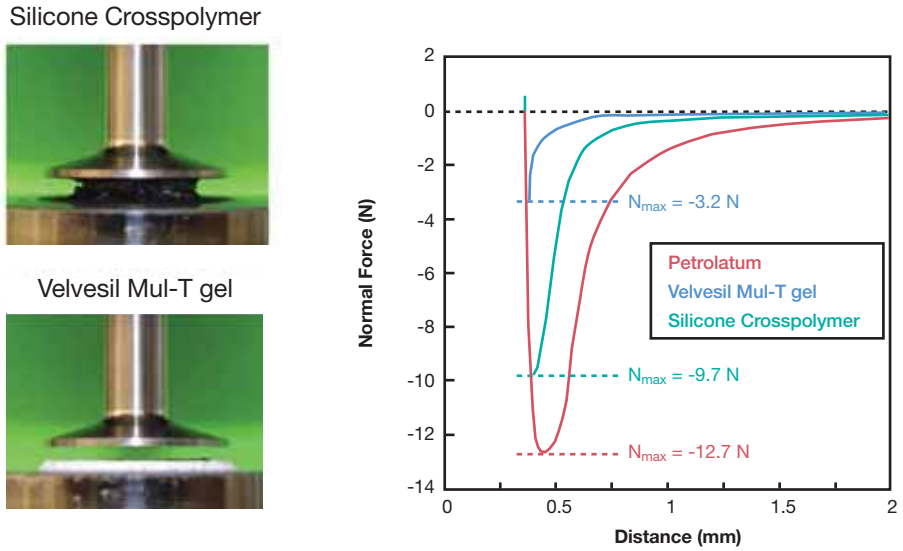
As seen in the images, the blank leather surface showed imperfections or wrinkles. These imperfections were completely covered when using the eye shadow with Velvesil Mul-T gel. The micrograph of the eye shadow with silicone crosspolymer showed enhanced contrast of the diminished roughness because of the pigments in the formulation. But the eye-shadow with Velvesil Mul-T gel showed improved coverage, and the roughness was visually further diminished. This indicates that Velvesil Mul-T gel may provide excellent coverage to hide skin imperfections and wrinkles.

4. Luxurious Feel Without Tack

When combined with silicone crosspolymer in Velvesil Mul-T gel, Momentive Softouch* boron nitride powder can provide a luxurious feel and help to reduce the tack of other ingredients.

The tack of Velvesil Mul-T gel and the silicone crosspolymer were tested in the experiment shown below. The tack measurements were done with an Anton Paar MCR 301 rheometer. The sample (0.37 mm thick) was sheared at a shear rate of 500 s^{-1} for 10 s, and then the probe was lifted at 1 cm/s. The normal force was measured as a function of the distance of the probe from the stationary plate. Tacky materials offer higher resistance during lifting of the probe. The higher the normal force, the higher the tack.

Figure 6: Tack measurement of petrolatum, Velvesil Mul-T gel and silicone crosspolymer.



As seen in the plot of normal force versus distance in Figure 6, Velvesil Mul-T gel exhibited low tack in comparison to petrolatum and silicone crosspolymer. This can also be seen in the photograph of silicone crosspolymer and Velvesil Mul-T gel between the two rheometer plates.

Note: Test results. Actual results may vary.

*Velvesil and Softouch are trademarks of Momentive Performance Materials Inc.

Test Performance Data (continued)

5. Binding Property in Pressed Powders

Velvesil Mul-T gel can be easily incorporated into pressed powder formulations. It can act as a binder to minimize cracks and improve the appearance of the finished formulation.

Two pressed powders are shown in Table 3; one was formulated with the Velvesil Mul-T gel and the other was formulated with an equivalent amount of boron nitride. The powders were pressed at 500 psi pressure by a bench top press and then tested for hardness.

Table 3: Pressed powder formulation for testing the binding property of Velvesil Mul-T gel.

Component	INCI	%
Talc U-11S2[(1)]	Talc (and) Triethoxycaprylylsilane	72.10
Velvesil Mul-T gel[(2)]	Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	9.00
Titanium Dioxide (BTD-401)[(1)]	Titanium Dioxide (and) Isopropyl Titanium Triisostearate	8.26
Sericite O-I3[(1)]	Mica (And) Isopropyl Titanium Triisostearate	2.48
ASO-I2[(1)]	Aluminum Starch Octenylsuccinate (and) Isopropyl Titanium Triisostearate	2.48
GMS-I2[(1)]	Mica (and) Isopropyl Titanium Triisostearate	4.13
Yellow Iron Oxide (BYO-I2)[(1)]	Iron Oxides (C.I. 77492) (and) Isopropyl Titanium Triisostearate	0.42
Red Iron Oxide (BRO-I2)[(1)]	Iron Oxides (C.I. 77491) (and) Isopropyl Titanium Triisostearate	0.17
Black Iron Oxide (BBO-I2)[(1)]	Iron Oxides (C.I. 77499) (and) Isopropyl Titanium Triisostearate	0.05
Sensient D&C Brown 1[(3)]	D&C red 33 (and) FD&C Blue # 1 (and) FD&C red # 4 (and) FD&C yellow # 5	0.91

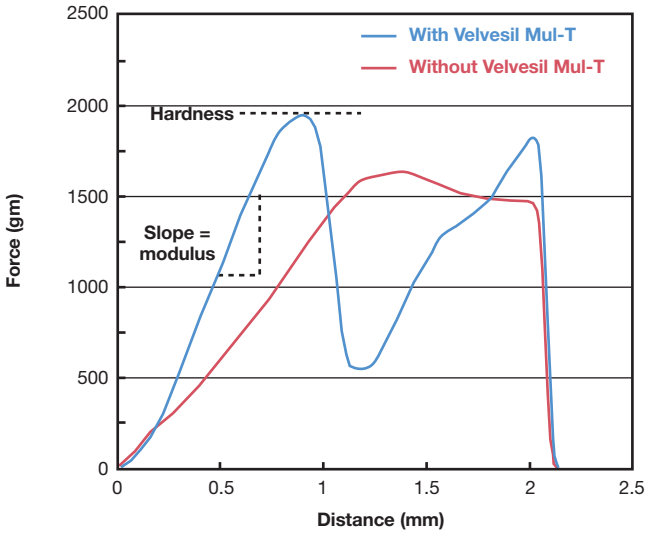
Suppliers:

(1) Kobo Products, Inc.
(2) Momentive Performance Materials
(3) Sensient Cosmetic Technologies

The consistency of the pressed powders was measured by a penetration test using a texture analyzer. Measurement of the force experienced by the probe as it penetrates in the powder provided details of hardness and consistency of the pressed powders.

Figure 7 shows measured force as the probe was penetrated in the pressed powder. Two pressed powders, with and without Velvesil Mul-T gel, were tested. The maximum force shows the hardness of the pressed powder and the slope of the plot shows the modulus of the pressed powders. As seen in the plot, the pressed powder with Velvesil Mul-T gel exhibited increased hardness and modulus. This indicates that Velvesil Mul-T gel can act as a binder in pressed powder, thus increasing hardness (Table 4).

Figure 7: Force versus penetration distance obtained for pressed powders with and without Velvesil Mul-T gel.



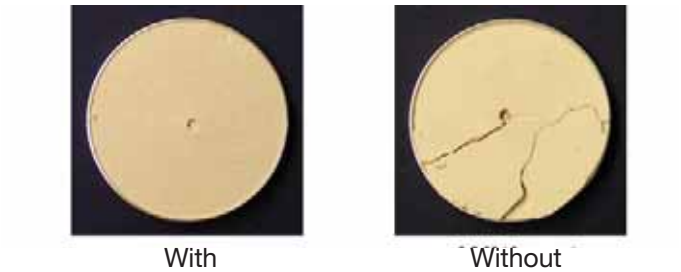
Test Performance Data (continued)

Table 4: Hardness and modulus of pressed powders with and without Velvesil Mul-T gel.

	With Velvesil Mul-T gel	Without Velvesil Mul-T gel
Hardness (g)	1920	1700
Modulus (g/mm)	2902	1500

After the probe penetration, the powder with Velvesil Mul-T gel did not display cracks, but the powder without it did. The physical evidence is shown in figure 8 below.

Figure 8: Pressed powders after the penetration test (a) pressed powder with Velvesil Mul-T gel and (b) without the Mul T-gel



With Velvesil Mul-T gel (a)

Without Velvesil Mul-T gel (b)

Compatibility

Velvesil Mul-T gel is compatible with a wide range of personal care ingredients. Compatibility is tested by mixing Velvesil Mul-T gel with other ingredients at a 1:1 ratio. Mixing Velvesil Mul-T gel with organic oils such as mineral oil, isopropyl myristate and isododecane, and silicones such as cyclopenta-siloxane, dimethicone oil, polydimethylsiloxane, typically forms a homogeneous, creamy mixture.

Ingredients Typically Compatible with Velvesil Mul-T gel
Mineral Oil
Isopropyl Myristate
Isododecane
Jojoba Oil
Caprylic CapricTriglycerides
SF 1202 (Cyclopentasiloxane)
Element14* PDMS 50 Silicone Oil (Dimethicone 50 cSt)
FR 5 (Fluoro MT resin in Dimethicone)
SE30 (Polydimethylsiloxane gum) in Isododecane
Glycerin
Propylene Glycol
Butylene Glycol

General Instructions for Use

- Velvesil Mul-T gel may be considered for use in:
  - O/W emulsions
  - W/O emulsions
  - W/Si emulsions
  - Anhydrous products
- Velvesil Mul-T gel can be added to the oil or silicone phase
- Velvesil Mul-T gel can withstand high shear devices during mixing
- Velvesil Mul-T gel can be cold-processed
- Velvesil Mul-T gel can be heated during manufacturing
- Suggested starting use level: 5 - 40 percent

Note: Test results. Actual results may vary.

Sample Formulations

Creamy Eye Shadow

Phase	Ingredients	INCI Name	Wt. %
A	**Silsoft* 034 organosilicone fluid(1)**	**Caprylyl Methicone**	**q.s. to 100%**
	Velvesil Mul-T gel(1)	**Caprylyl Methicone and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer**	**37.00**
	Preservative	N.A.	q.s.
	SilForm* FR-5 fluid(1)	**Trifluoropropyldimethylsiloxy/Trimethylsiloxy Silsesquioxane (and) Dimethicone**	**6.00**
B	KTZ Misterioso Pewter(2)	Mica (and) Titanium Dioxide (and) Iron Oxides (C.I. 77499)	13.00
	Tospearl* 3000A microsphere(1)	**Polymethylsilsesquioxane**	**12.50**
	Softouch* CCS402 powder(1)	**Boron Nitride**	**0.50**
C	Jeenate 4H(3)	Polyethylene	5.00
	Microease 1132(4)	Synthetic Wax (and) Microcrystalline Wax	2.00

Procedure:

1. Disperse Velvesil Mul-T gel in Silsoft 034 organosilicone fluid until uniform.
2. Add preservative.
3. Add SilForm FR-5.
4. Homogenize.
5. Mix in phase B ingredients until completely dispersed.
6. Heat batch to 90 - 95 °C.
7. Heat phase C in separate vessel until melted.
8. Add phase C waxes in the batch, maintaining heat and agitation until uniform.
9. When uniform, slowly cool batch to 70 - 75 °C; pour product into suitable container.

Suppliers:

(1) Momentive Performance Materials
(2) Kobo Products, Inc.
(3) Jeen International
(4) Micro Powders, Inc.

Moisturizing Cream

Phase	Ingredients	INCI Name	Wt. %
A	**Silsoft* 034 organosilicone fluid(1)**	**Caprylyl Methicone**	**14.00**
	SilForm* 60-A emulsifier(1)	**PEG/PPG-20/15 Dimethicone (and) Diisopropyl Adipate**	**4.00**
	Velvesil Mul-T gel(1)	**Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer**	**10.00**
	SF1632(1)	**Cetearyl Methicone**	**1.00**
B	DI water	Water	q.s. to 100%
	Butylene Glycol	Butylene Glycol	5.00
	Glycerin	Glycerin	1.00
	Sodium Chloride	Sodium Chloride	1.00
	Preservative	N.A.	q.s.

Procedure:

1. In main vessel, combine all ingredients in phase A.
2. Homogenize until Velvesil Mul-T gel is well combined and free of clumps.
3. Dissolve phase B ingredients in water in a separate vessel.
4. Slowly add phase B ingredients into phase A, while mixing with high agitation.
5. Homogenize if necessary.

Supplier:

(1) Momentive Performance Materials

Sample Formulations (continued)

Mousse Foundation

Phase	Ingredients	INCI Name	Wt. %
A	**Element14* PDMS 5 silicone oil(1)**	**Dimethicone**	**20.00**
	Velvesil Mul-T gel(1)	**Caprylyl Methicone (and) Boron Nitride (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer**	**66.40**
	SR1000(1)	**Trimethylsiloxysilicate**	**1.61**
B	KOBO- BTD-401(2)	Titanium Dioxide (and) Isopropyl Titanium Triisostearate	5.51
	KOBO - Sericite O-I3(2)	Mica (and) Isopropyl Titanium Triisostearate	1.65
	KOBO- ASO-I2(2)	Aluminum Starch Octenylsuccinate (and) Isopropyl Titanium Triisostearate	1.65
	KOBO- GMS-I2(2)	Mica (and) Isopropyl Titanium Triisostearate	2.75
	KOBO - Yellow BYO-I2(2)	Iron Oxides (C.I. 77492) (and) Isopropyl Titanium Triisostearate	0.28
	KOBO - Red BRO-I2(2)	Iron Oxides (C.I. 77491) (and) Isopropyl Titanium Triisostearate	0.12
	KOBO - Black BBO-I2(2)	Iron Oxides (C.I. 77499) (and) Isopropyl Titanium Triisostearate	0.03

Procedure:

1. Mix ingredients of phase A to make a homogeneous mixture.
2. Mix phase B ingredients to make a pigment premix.
3. Mix phase A and phase B until homogeneous.

Suppliers:

(1) Momentive Performance Materials
(2) KOBO Products Inc.

BB Cream

Phase	Ingredients	INCI Name	Wt. %
A	**Velvesil * Mul-T Gel(1)**	**Caprylyl Methicone (and) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer**	**7.00**
	Element14* PDMS 5 cts silicone oi(1)	**Dimethicone**	**18.00**
	SilForm* FR-5 fluid(1)	**Trifluoropropyldimethylsiloxy/ Trimethylsiloxy Silsesquioxane (and) Dimethicone**	**2.00**
	SilForm* 60-A emulsifier(1)	**PEG/PPG-20/15 Dimethicone (and) Diisopropyl Adipate**	**7.00**
	SF1555(1)	**Bisphenylpropyl Dimethicone**	**2.00**
	Preservative	N.A.	q.s.
	Fragrance	Fragrance	0.20
B	**Silsoft* 034 organosilicone fluid(1)**	**Caprylyl Methicone**	**5.00**
	Titanium Dioxide - BTD-11S2(2)	Titanium Dioxide (and) Triethoxycaprylylsilane	2.00
	Yellow Iron Oxide - BYO-11S2(2)	Iron Oxide (and) Triethoxycaprylylsilane	0.50
	Red Iron Oxide - BRO-11S2(2)	Iron Oxide (and) Triethoxycaprylylsilane	0.20
	Black Iron Oxide - BB0-11S2(2)	Iron Oxide (and) Triethoxycaprylylsilane	0.05
	Titanium Dioxide - JTTO-MS7(2)	Titanium Dioxide (and) Alumina (and) Methicone	7.00
C	Deionized Water	Water	q.s. to 100%
	Trisodium EDTA	Trisodium EDTA	0.20
	1,3 Butylene Glycol	Butylene Glycol	3.00
	Glycerin	Glycerin	5.00
	NaCl	Sodium Chloride	1.00
	Symcalmin†(3)	Hydroxyphenyl Propamidobenzoic Acid	1.00
D	Bentone 38V(4)	Disteardimonium Hectorite	0.70

Procedure:

1. Combine phase A ingredients into main kettle and mix until uniform.
2. Add phase B ingredients to main kettle and homogonize until fully dispersed and uniform.
3. Combine phase C ingredients in a separate vessel and mix until uniform.
4. Slowly add phase C ingredients into the main kettle with high-speed agitation.
5. Mix until completely uniform.
6. Add phase D ingredient under high-speed agitation.
7. Homogonize until uniform.

Suppliers:

(1) Momentive Performance Materials
(2) Kobo Products, Inc.
(3) †Symcalmin is a trademark of Symrise AG
(4) Elementis Specialties, Inc.

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Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. MSDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

MOMENTIVE™

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