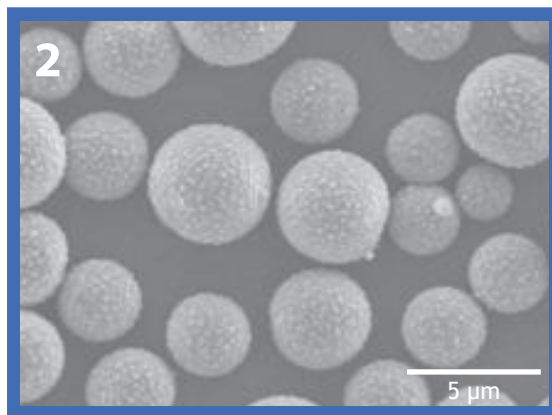
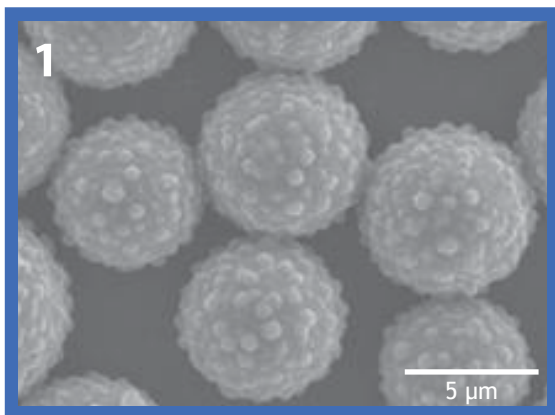


# Composite Microspheres For Optical Enhancing

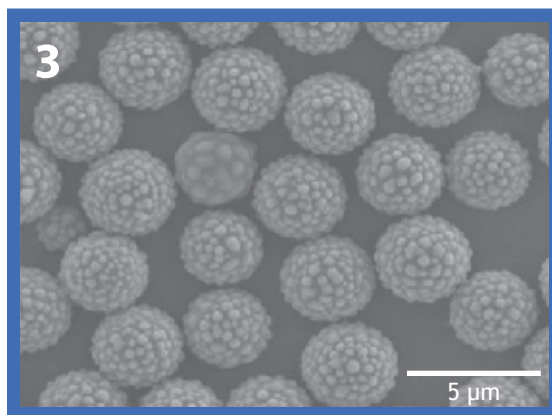
Accentuates skin with a natural appearance while hiding imperfections such as fine lines and wrinkles

- Optical blurring in formulation to obscure problematic skin areas attributed to:
  - > the microspherical shape & the texture of the particle surface
- Excellent for modifying the feel of a product resulting from:
  - > the particle's chemical composition & orientation of the outer surface



**Figure 1 & 2**  
**MSP-AK06<sup>(1)</sup> and MSP-TK04<sup>(2)</sup>**  
 Composite microspheres of polymethylsilsesquioxane (PMSQ) microsphere and alumina<sup>(1)</sup> (and) PMSQ and TiO<sub>2</sub><sup>(2)</sup>

Note: MSP-AK06<sup>(1)</sup> has a textured surface that shows increased light scattering in a dimethicone medium in comparison to a smooth surfaced sphere.



**Figure 3. Silcrusta MK03<sup>(3)</sup>**  
 A textured microsphere core of a methyl methacrylate crosspolymer microsphere with a PMSQ surrounding surface

Product Name	Microsphere	Surface	% Modifier	Size
(1) MSP-AK06	PMSQ	Textured	1-3% Alumina	6 µm
(2) MSP-TK04	PMSQ	Textured	3-5% TiO <sub>2</sub>	4 µm
(3) SILCRUSTA MK03	MMA Crosspolymer	Textured	10-20% PMSQ	4 µm

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# Composite Microspheres for Optical Enhancing

## CC Cream Featuring MSP-AK06

KLF-118A-BR

### Part 1

• Deionized Water	31.43%
• Butylene Glycol - Mapric: Butylene Glycol	2.00%
• <b>KOBOGUARD® 50N</b> - Kobo Products: Water (And) Acrylates Copolymer	1.00%
• Sodium Chloride - Mapric: Sodium Chloride	0.70%

### Part 2

• <b>HBP50VMTS</b> - Kobo Products: Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Methicone (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	15.00%
• <b>RBTD-M-FS</b> - Kobo Products: Titanium Dioxide (And) Perfluorooctyl Triethoxysilane	8.00%
• <b>SALACOS® 99</b> - Ikeda/Kobo Products: Isononyl Isononanoate	7.50%
• Silsoft 034 - Momentive: Caprylyl Methicone	7.50%
• <b>HBTN65HP1</b> - Kobo Products: Zinc Oxide (And) Butyloctyl Salicylate (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane	7.22%
• SF1540 - Momentive: Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	5.50%
• <b>COSMOL™ 43V</b> - Ikeda/Kobo Products: Polyglyceryl-2 Triisostearate	2.00%
• <b>BWYO-FS</b> - Kobo Products: Iron Oxides (C.I. 77492) (And) Perfluorooctyl Triethoxysilane	1.50%
• Optiphen - ISP: Caprylyl Glycol (And) Phenoxyethanol	1.00%
• Liposorb® L-20 - Vantage: Polysorbate 20	0.70%
• ABIL® EM 180 - Evonik: Cetyl PEG/PPG-10/1 Dimethicone	0.60%
• <b>BWRO-FS</b> - Kobo Products: Iron Oxides (C.I. 77491) (And) Perfluorooctyl Triethoxysilane	0.25%
• <b>BWBO-FS</b> - Kobo Products: Iron Oxides (C.I. 77499) (And) Perfluorooctyl Triethoxysilane	0.10%

### Part 3

• <b>COMPOSITE ACT-50</b> - Kobo Products: Titanium Dioxide (And) Acrylates Copolymer (And) Hydrated Silica (And) Algin (And) Aluminum Hydroxide	5.00%
• <b>MSP-AK06</b> - Nikko Rica/Kobo Products: Polymethylsilsesquioxane (And) Alumina	3.00%

### Manufacturing Procedure

1. Add Part 2 and mix.
2. Pre-mix Part 1 and add to Part 2 slowly while mixing.
3. Add Part 3 and mix well.
4. Homogenize for 5 minutes at 8000 rpm.

### Description

This elegant CC Cream features Kobo's FS-Treated Pigments that show both water and oil repellency which helps achieve long lasting make-up resilient to perspiration and sebum. SALACOS® 99 is a light ester that offers a very pleasant skin feel and COSMOL™ 43V is an excellent pigment dispersant recommended for foundations and lipsticks. KOBOGUARD® 50N is a film former that gives water-resistance to the formulation. COMPOSITE ACT-50 is a powder containing dispersed attenuation grade TiO<sub>2</sub> entrapped within a micron size polymer matrix to achieve SPF. In the composite the optical properties of the titanium dioxide are maintained plus an improved skin feel during application is obtainable. HB dispersions have a high solids content dispersed in Butyloctyl Salicylate, offering high performance in sunscreen lotions with low whitening effect. MSP-AK06 is a textured microsphere that accentuates skin with a natural appearance while hiding imperfections such as fine lines and wrinkles.

### Active Ingredients

Titanium Dioxide	4.51%
Zinc Oxide	8.15%

## Pressed Powder with SILCRUSTA MK03

KPP-069F

### Part 1

• <b>SERICITE GMS-4C</b> - Kobo Products: Mica	70.48%
• <b>SILCRUSTA MK03</b> - Nikko Rica/Kobo Products: Methyl Methacrylate Crosspolymer (And) Polymethylsilsesquioxane	10.00%
• <b>BTD-11S2</b> - Kobo Products: Titanium Dioxide (And) Triethoxycaprylylsilane	7.00%
• <b>ZINC MYRISTATE</b> - Kobo Products: Zinc Myristate	2.00%
• <b>BYO-11S2</b> - Kobo Products: Iron Oxides (C.I. 77492) (And) Triethoxycaprylylsilane	1.00%
• <b>BRO-11S2</b> - Kobo Products: Iron Oxides (C.I. 77491) (And) Triethoxycaprylylsilane	0.86%
• <b>BBO-11S2</b> - Kobo Products: Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane	0.46%
• Methyl Paraben NF - International Sourcing: Methylparaben	0.10%
• Propyl Paraben NF - International Sourcing: Propylparaben	0.10%

### Part 2

• <b>CSF-3100@20cSt</b> - NuSil/Kobo Products: Dimethicone	2.50%
• Lexol® PG-865 - Inolex Chemical Company: Propylene Glycol Dicaprylate/Dicaprate	2.50%
• <b>CSF-3100@350cSt</b> - NuSil/Kobo Products: Dimethicone	2.00%
• SS4267 - Momentive: Dimethicone (And) Trimethylsiloxysilicate	1.00%

### Manufacturing Procedure

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well.
4. Press at 500 psi.

### Description

Part of a formula series that shows how important Microspheres are to pressed powder formulas. Each type and size of Microsphere gives the formula a different feel.

This pressed powder formula contains Kobo's SILCRUSTA MK03, Methyl Methacrylate Crosspolymer Microsphere, used for optical enhancing to accentuate the skin with a natural appearance while hiding imperfections such as fine lines and wrinkles. SERICITE GMS-4C is added to give a glide-on application. Kobo's 11S treatment helps to provide this pressed powder with adhesion to the skin and gives the formula a creamy feel. Caresil Pure Fluids, high clarity-purity silicones, CSF-3100@20cSt and 350cSt, deliver an emollient, silky feel with reduced tackiness that brings about high spreadability and compatibility. ZINC MYRISTATE also contributes to great feel and adherence on the skin.

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