

Surface Treated Microspheres



Microspheres are micron-sized spherical particles used in formulas for their ability to scatter light to diminish the look of fine lines on the skin, an effect also known as "optical blurring" or "soft focus".

They also provide a ball-bearing effect, which will impart finished products with increased payoff, an elegant silky texture, enhanced slip and better blendability for a more natural finish.

Microspheres are also available with surface treatments, which help when adding them to oil phases in formulas and enhance skin feel, adhesion and blendability. Fluorinated treatments render Microspheres both hydrophobic and lipophobic, making them excellent choices for long-wear products due to their resilience to perspiration and sebum.

	Trade Name	INCI Name	Treatment Type	Size (µm)	Oil Abs (g/100g)	Bulk Density (g/in ³)
Polymer Microspheres	New MST-547-FS	Polymethylsilsesquioxane (And) Perfluorooctyl Triethoxysilane	Fluorinated	4	47	6.3
	BPA-5I5	Polymethyl Methacrylate (And) Isopropyl Titanium Trisostearate	Lipophilic	9	50	3.8
	Nylon 10-12	Nylon-12 (And) Isopropyl Titanium Triisostearate	Lipophilic	8	56	3.5
	New SP-10-FS	Nylon-12 (And) Perfluorooctyl Triethoxysilane	Fluorinated	9	60	4.4
Mineral Microspheres	New MSS-500N-FS	Silica (And) Perfluorooctyl Triethoxysilane	Fluorinated	8	24	13.5
	MSS-500-NS5	Silica (And) Methoxy Amodimethicone/Silsesquioxane Copolymer	Silicone	12	105	8.5
	SILICA SHELLS-SH		Silicone	3	475	0.7
	New SILIGHT DS-PDL3	Silica (And) Dimethicone (And) Cetearyl Alcohol (And) Stearic Acid (And) Ceramide NP (And) Phytosterols	Hybrid	6	100	4.7
	New FLORITE PS-MNS8	Calcium Silicate (And) Methoxy Amodimethicone/Silsesquioxane Copolymer (And) Hydrogen Dimethicone	Silicone	11	330	1.7
Natural Polymer Microspheres	CELLULOBEADS D-10-PC2	Cellulose (And) Hydrogenated Lecithin	Natural	11	35	9.1

This chart was prepared to assist in formulating with Surface Treated Microspheres. The information contained herein is believed to be accurate at the time of printing, but should not be used as a substitute for product specification sheets.



KLP-168

Bi-Phase Lip Gloss

Part 1

● COSMOL® 222 - Ikeda: <i>Diisostearyl Malate</i>	19.00%
● Panalene® L-14E - Vantage: <i>Hydrogenated Polyisobutene</i>	19.00%
● SALACOS® 5418V - Ikeda: <i>Pentaerythrityl Tetraisostearate</i>	9.00%
● Protachem™ CTG - Protameen: <i>Caprylic/Capric Triglyceride</i>	8.00%
● Floramac® 10 - Floratech: <i>Ethyl Macadamiate</i>	6.50%
● Elefac I-205 - Alzo International Inc.: <i>Octyldodecyl Neopentanoate</i>	6.30%
● GMS-FS - Kobo Products: <i>Mica</i> <i>(And) Perfluorooctyl Triethoxysilane</i>	5.00%
● Xiameter® PMX-200 Silicone Fluid 20CS - Dow Corning: <i>Dimethicone</i>	5.00%
● MST-547-FS - Kobo Products: <i>Polymethylsilsesquioxane</i> <i>(And) Perfluorooctyl Triethoxysilane</i>	4.70%
● KF-6017 - Shin-Etsu: <i>PEG-10 Dimethicone</i>	4.00%
● KOBOGUARD® MQ65TMF - Kobo Products: <i>Trimethylsiloxysilicate (And) Methyl Trimethicone</i>	3.00%
● Permethyl® 99A - Presperse: <i>Isododecane</i>	3.00%
● Lipo Polyglycol® 400 - Vantage: <i>PEG-8</i>	1.00%
● Bentone® 38 V CG - Essential Ingredients: <i>Disteardimonium Hectorite</i>	0.40%
● PROPYLENE CARBONATE - Spectrum Chemical: <i>Propylene Carbonate</i>	0.40%
● RED 6BA S-FS08 - Kobo Products: <i>Red 6 Lake</i> <i>(And) Perfluorooctyl Triethoxysilane</i>	0.40%
● RED 7CA E-FS08 - Kobo Products: <i>Red 7 Lake</i> <i>(And) Perfluorooctyl Triethoxysilane</i>	0.30%

Part 2

● Ethanol 24,511-9 - Aldrich Chemical Co.: <i>Ethyl Alcohol</i>	4.44%
● CITRIC ACID USP ANHYDROUS FINE GRANULAR - VWR Scientific Products: <i>Citric Acid</i>	0.56%

Manufacturing Procedure

1. Combine all Part 1 ingredients and homogenize until uniform.
2. Add Part 2 to batch until uniform.

Description

This Bi-Phase Lip Gloss features a combination of FS treated pigments, GMS-FS and MST-547-FS which enhances application and adds a mattifying effect to the lips. Kobo's Fluoro Silane (FS) treated pigments, Red 6 BA S-FS08 and Red 7 CA E-FS08, exhibit both water and oil repellency and promote skin adherence and increased wear. KOBOGUARD® MQ65TMF is a flexible film former that offers comfort, breathability through application, good wear and water resistance.



KBL-017

Pink Gel Blush

Part 1

● CXG-1103 - Avantor/Kobo Products: <i>Cyclopentasiloxane</i> <i>(And) Cyclohexasiloxane (And) Dimethicone/Vinyl</i> <i>Dimethicone Crosspolymer</i>	43.00%
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Part 2

● GMS-TTB4 - Kobo Products: <i>Mica (And) Isopropyl</i> <i>Titanium Triisostearate (And) Triethoxysilylethyl</i> <i>Polydimethylsiloxyethyl Dimethicone</i>	19.50%
● SILICA SHELLS-SH - Kobo Products: <i>Silica (And)</i> <i>Methoxy Amodimethicone/Silsesquioxane Copolymer</i>	3.00%
● RED 30AL-TTB2 - Kobo Products: <i>Red 30 Lake (And)</i> <i>Isopropyl Titanium Triisostearate (And)</i> <i>Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone</i>	2.00%
● BTD-TTB2 - Kobo Products: <i>Titanium Dioxide (And)</i> <i>Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl</i> <i>Polydimethylsiloxyethyl Dimethicone</i>	0.90%
● BLUE 1AL S-TTB6 - Kobo Products: <i>Blue 1 Lake (And)</i> <i>Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl</i> <i>Polydimethylsiloxyethyl Dimethicone</i>	0.10%

Part 3

● Permethyl® 99A - Presperse: <i>Isododecane</i>	11.25%
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Part 4

● KOBOGUARD® 5400 IDD - Kobo Products: <i>Hydrogenated Polycyclopentadiene (And) Isododecane</i>	6.00%
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Part 5

● Botanistat PF-64 - DD Chemco: <i>Phenoxyethanol (and)</i> <i>Caprylyl Glycol (and) Ethylhexylglycerin (and) Hexylene Glycol</i>	0.50%
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Part 6

● Permethyl® 99A - Presperse: <i>Isododecane</i>	7.75%
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Part 7

● MSP-AK06 - Nikko Rica/Kobo Products: <i>Polymethylsilsesquioxane (And) Alumina</i>	6.00%
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Manufacturing Procedure

1. Blend Part 2 until color is fully developed.
2. Add Part 2 to Part 1 while mixing with sweep blade.
3. Add Parts 3-7 while mixing with sweep blade.

Description

This gel blush contains CXG-1103 which imparts a creamy, gel texture to the product. TTB treated pigments give good color development and stability to the formula. SILICA SHELLS-SH is a hydrophobically treated porous silica with high oil absorption properties. MSP-AK06 is a textured microsphere that accentuates skin with a natural appearance while hiding imperfections such as fine lines and wrinkles. KOBOGUARD® 5400 IDD forms a water-resistant film that offers long wear to this formulation.

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