

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	MST-547-FS	<i>Polymethylsilsesquioxane (And) Perfluorohexylethyl Triethoxysilane</i>	Fluorinated	4	47	6.3
	BPA-515	<i>Polymethyl Methacrylate (And) Isopropyl Titanium Triisostearate</i>	Lipophilic	9	50	3.8
	Nylon 10-12	<i>Nylon-12 (And) Isopropyl Titanium Triisostearate</i>	Lipophilic	8	56	3.5
	SP-10-FS	<i>Nylon-12 (And) Perfluorohexylethyl Triethoxysilane</i>	Fluorinated	9	60	4.4
Mineral Microspheres	SILICA SHELLS-SH	<i>Silica (And) Methoxy Amodimethicone/Silsesquioxane Copolymer</i>	Silicone	3	475	0.7
	MSS-500N-FS	<i>Silica (And) Perfluorohexylethyl Triethoxysilane</i>	Fluorinated	8	24	13.5
	FLORITE PS-MNS8	<i>Calcium Silicate (And) Methoxy Amodimethicone/Silsesquioxane Copolymer (And) Hydrogen Dimethicone</i>	Silicone	11	330	1.7
Natural Polymer Microspheres	New CELLULOBEADS D-5-NPC2	<i>Cellulose (And) Hydrogenated Lecithin</i>	Natural	10	35	6.4
	New CELLULOBEADS D-5-ASG3	<i>Cellulose (And) Stearoyl Glutamic Acid</i>	Natural	13	36	8.1
	New CELLULOBEADS D-10-NJE2	<i>Cellulose (And) Jojoba Esters</i>	Natural	13	36	7.7
	New CELLULOBEADS D-10-NPC2	<i>Cellulose (And) Hydrogenated Lecithin</i>	Natural	13	36	7.7
	New CELLULOBEADS D-10-I3	<i>Cellulose (And) Isopropyl Titanium Triisostearate</i>	Lipophilic	16	34	4.4

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 Tetraisoostearate</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) Perfluorohexylethyl 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) Perfluorohexylethyl 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) Perfluorohexylethyl Triethoxysilane</i>	0.40%
● RED 7CA E-FS08 - Kobo Products: <i>Red 7 Lake</i> <i>(And) Perfluorohexylethyl 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.



KLP-234-BR

Liquid Matte Lipstick

Part 1

● Permethyl® 99A - Cosmotec: <i>Isododecane</i>	22.52%
● Versagel® MC1600 - Vantage: <i>Isohexadecane (And)</i> <i>Ethylene/Propylene/Styrene Copolymer (And)</i> <i>Butylene/Ethylene/Styrene Copolymer</i>	15.00%
● T.I.O. - Ikeda/Kobo Products: <i>Triethylhexanoin</i>	10.00%
● Bentone Gel® ISD V - Elementis/Cosmotec: <i>Isododecane (And)</i> <i>Disteardimonium Hectorite (And) Propylene Carbonate</i>	5.00%
● KOBOGUARD® 5400 IDD - Kobo Products: <i>Hydrogenated</i> <i>Polycyclopentadiene (And) Isododecane</i>	5.00%
● Ozoquerita - Cosmotec: <i>Ozokerite</i>	3.50%
● PM WAX 82 - Kobo Products: <i>Polyethylene (And)</i> <i>Microcrystalline Wax</i>	3.00%
● COSMOL™ 168ARV - Ikeda/Kobo Products: <i>Dipentaerythrityl</i> <i>Hexahydroxystearate/Hexastearate/Hexarosinate</i>	2.00%

Part 2

● PMLVP40R7D - Kobo Products: <i>Isododecane (And) Red 7 Lake</i> <i>(And) Isohexadecane (And) Lecithin (And) Polyhydroxystearic</i> <i>Acid (And) Ethylene/Propylene/Styrene Copolymer (And)</i> <i>Butylene/Ethylene/Styrene Copolymer (And) Isopropyl Titanium</i> <i>Triisostearate</i>	14.20%
● PMLVP75R - Kobo Products: <i>Iron Oxides (CI 77491) (And)</i> <i>Isododecane (And) Isohexadecane (And) Lecithin (And)</i> <i>Polyhydroxystearic Acid (And) Ethylene/Propylene/Styrene</i> <i>Copolymer (And) Butylene/Ethylene/Styrene Copolymer (And)</i> <i>Isopropyl Titanium Triisostearate</i>	10.43%
● PMLVP75C - Kobo Products: <i>Titanium Dioxide (And) Isododecane</i> <i>(And) Isohexadecane (And) Isopropyl Titanium Triisostearate (And)</i> <i>Lecithin (And) Ethylene/Propylene/Styrene Copolymer (And)</i> <i>Polyhydroxystearic Acid (And) Butylene/Ethylene/Styrene</i> <i>Copolymer</i>	2.05%

Part 3

● Lexgard® O - Inolex: <i>Caprylyl Glycol</i>	0.30%
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Part 4

● FLORITE PS-MNS8 - Kobo Products: <i>Calcium Silicate (And)</i> <i>Methoxy Amodimethicone/Silsesquioxane Copolymer (And)</i> <i>Hydrogen Dimethicone</i>	7.00%
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Manufacturing Procedure

1. Add Part 1 ingredients and heat to 80°C until completely melted.
2. Add Part 2 and mix until homogeneous.
3. Add Part 3 and mix until homogeneous.
4. Add Part 4 and mix until homogeneous.
5. Cool to 45°C under stirring.

Description

This Matte Lipstick delivers high impact color with a light weight and comfortable texture. It features FLORITE PS-MNS8, a treated high oil absorption microsphere, that imparts a matte effect and cushioned feel. PMLVP dispersions contribute to intense matte coverage and provide full color development. For adhesion and substantivity of the formula to the lips, water-resistance and rub resistance, KOBOGUARD® 5400 IDD was used. COSMOL™ 168ARV helps with adhesion and comfort, and T.I.O. is an emollient with excellent lubricity. PM WAX 82 provides structure and improves formula stability.

KOBO*Surface Treated Microspheres*

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