

CPF-3300@10cSt & PT1BM Dispersions

Recent development of a patent-pending, high refractive index, low centistoke phenyl trimethicone has opened the door to unexpected benefits contributing to transfer resistance, long wear, and gloss in various cosmetic and personal care applications.

Typically, high refractive index phenyl trimethicone has been incorporated into formulations to provide the following properties:

- **Color cosmetics:** Adds gloss, softness and shine
- **Hair Care products:** Provides gloss and sheen
- **Skin Care products:** Improves emolliency and water repellency

CPF-3300@10cSt is a new grade of phenyl trimethicone with unique properties, manufactured by Nusil Technology LLC in California under ISO 14001:2004 conditions. Its low viscosity allows for easy incorporation into formulas. It exhibits excellent solubility with alcohol, mineral oil, esters, silicones and other liquids and waxes used in cosmetics and personal care. This phenyl modified silicone fluid offers a unique sensory profile in comparison to Cyclopentasiloxane to achieve desirable and comparable formulation results. The opportunity

to formulate using this optimized phenyl fluid allows chemists to further utilize optical reflective properties to reach new limits.

The advantages of **CPF-3300@10cSt** compared to 20cSt include increased shine, improved smudge and transfer resistance resulting in longer wear, better color development of the pigment in the finished formula and more uniform product payoff.

Patent-Pending on Application using **CPF-3300@10cSt** (#61/155,233)

Glossmeter Results (GU = Gloss Units):

CPF-3300 Materials	Lipstick containing PT1	Mascara containing PT1
10 cSt: 53 GU @ 20°	10 cSt: 36 GU @ 85°	10 cSt: 13.5 GU @ 20°
20 cSt: 28 GU @ 20°	20 cSt: 32 GU @ 85°	20 cSt: 11.5 GU @ 20°
40 cSt: 24 GU @ 20°	40 cSt: 26 GU @ 85°	40 cSt: 6.8 GU @ 20°

Lipstick with CPF-3300@10cSt

KLP-108

Part 1

- **CPF-3300@10cSt** - Nusil/Kobo Products: Phenyl Trimethicone 33.20%
- **KOBOGUARD® HRPC** - Kobo Products: Hydrogenated Polycyclopentadiene (And) Polyethylene (And) Copernicia Cerifera (Carnauba) Wax (And) Tocopherol 7.00%
- Ozokerite Wax White SP 1020P - Strahl & Pitsch, Inc.: Ozokerite Wax 7.00%
- SALACOS® WO-6 - Ikeda Corporation: Dipentaerythryl Tri-Polyhydroxystearate 6.00%
- Carnauba Wax #1 - Strahl & Pitsch, Inc.: Copernicia Cerifera (Carnauba) Wax 5.00%
- Microcrystalline Wax SP-89 - Strahl & Pitsch, Inc.: Microcrystalline Wax 4.00%
- Synthetic Beeswax Pastilles SP755P - Strahl & Pitsch, Inc.: Synthetic Beeswax 4.00%

Part 2

- **INBP45R7C** - Kobo Products: Red 7 Lake (And) Isononyl Isononanoate (And) Isopropyl Myristate (And) Stearalkonium Hectorite (And) Isopropyl Titanium Triisostearate (And) Propylene Carbonate (And) Polyhydroxystearic Acid 11.80%
- COSMOL™ 43V - Ikeda Corporation: Polyglyceryl-2 Triisostearate 10.00%
- **KTZ® ARUBAN CORAL** - Kobo Products: Mica (And) Titanium Dioxide (And) Iron Oxides (C.I. 77491) 5.00%

- **TNP50T7-ATB** - Kobo Products: C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Methicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol 4.00%
- **KOBOPEARL® PERPETUAL RedGold** - Kobo Products: Synthetic Fluorophlogopite (And) Silica (And) Titanium Dioxide 3.00%

Manufacturing Procedure

1. Add Part 1 and heat to 85°C with a propeller blade.
2. Pre-mix Part 2 and add to Part 1.
3. Start cooling to 70-75°C.
4. Pour into molds at 70-75°C.

Description

This lipstick features Nusil's Phenyl Trimethicone CPF-3300@10cSt. The 10 cSt helps give the lipstick improved payoff as well as shine. Kobo's film former, **KOBOGUARD® HRPC**, provides water resistance and can improve wear of the formulation. **INBP45R7C** dispersion gives the formula an intense, vivid red shade. **TNP50T7-ATB** gives an added benefit of feel and protection, since it is an optimized mixture of a TiO₂ sunscreen dispersion with SunBoost ATB™, a proprietary blend of antioxidant, anti-irritant and anti-inflammatory agents. To add a touch of sparkle, **KTZ® ARUBAN CORAL** and **KOBOPEARL® PERPETUAL RedGold** do the trick.

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CPF-3300@10cSt & PT1BM Dispersions

Kobo now offers a series of dispersions (**PT1BM**) to impart the highlighted benefits of this unique phenyl trimethicone carrier, **CPF-3300@10cSt**. The color series includes Iron Oxides, Organic Pigments and Pigmentary Titanium Dioxide.

INCI: Phenyl Trimethicone (And) Silica (And) Isopropyl Titanium Triisostearate (And) Disteardimonium Hectorite (And) 1,2-Hexanediol (And) Caprylyl Glycol

PT1BM Dispersions offer high concentrations of color that contribute a glossy effect with good spreadability and a silky feel to finished formulas. They are easily incorporated into emulsions, hot pours or anhydrous gels, and can provide the following properties:

- Impart *shine* in lipsticks with intense color
- Provide foundations with uniform color and laydown *comfortable* long wear
- Offer mascaras a smooth *glide* upon application and help provide gloss effect on lashes

Trade Name	Pigment
 PT1BM30R7C	Red 7 Lake
 PT1BM35B1A	Blue 1 Lake
 PT1BM40R6B	Red 6 Lake
 PT1BM50Y5A	Yellow 5 Lake
 PT1BM40Y	Iron Oxide (C.I. 77492)
 PT1BM60B	Iron Oxide (C.I. 77499)
 PT1BM70R	Iron Oxide (C.I. 77491)
 PT1BM70U	Titanium Dioxide

Lipstick with PT1BM Dispersions

KLP-124A

Part 1

- **CPF-3300@10cSt** - NuSil/Kobo Products: Phenyl Trimethicone 27.50%
- Permalene™ M 70 Wax - New Phase Technologies: Synthetic Wax 19.80%
- **KOBOGUARD® 5400 CCT** - Kobo Products: Hydrogenated Polycyclopentadiene (And) Caprylic/Capric Triglyceride 17.90%
- **PT1BM30R7C** - Kobo Products: Phenyl Trimethicone (And) Red 7 Lake (And) Isopropyl Titanium Triisostearate (And) Disteardimonium Hectorite (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Silica 10.00%
- **PT1BM50Y5A** - Kobo Products: Phenyl Trimethicone (And) Yellow 5 Lake (And) Isopropyl Titanium Triisostearate (And) Disteardimonium Hectorite (And) Silica (And) 1,2-Hexanediol (And) Caprylyl Glycol 8.75%
- COSMOL™ 168ARV - Ikeda Corporation: Dipentaerythrityl Hexahydroxystearate/Hexastearate/Hexarosinate 6.70%
- **PT1BM70R** - Kobo Products: Iron Oxides (C.I. 77491) (And) Phenyl Trimethicone (And) Disteardimonium Hectorite (And) Isopropyl Titanium Triisostearate (And) Silica (And) 1,2-Hexanediol (And) Caprylyl Glycol 3.75%

- **PT1BM70U** - Kobo Products: Titanium Dioxide (And) Phenyl Trimethicone (And) Disteardimonium Hectorite (And) Isopropyl Titanium Triisostearate (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Silica 2.50%
- COSMOL™ 222 - Ikeda Corporation: Diisostearyl Malate 2.10%
- COSMOL™ 43V - Ikeda Corporation: Polyglyceryl-2 Triisostearate 1.00%

Manufacturing Procedure

1. Add all ingredients to the main vessel and heat to 90°C until waxes are completely melted. Mix until pigments are fully dispersed.
2. Cool to 65°C and pour into component.

Description

This Lipstick formula features Kobo's New PT1BM dispersions. These dispersions are easy to use, offering good spreadability and a silky feel. Phenyl Trimethicone CPF-3300@10cSt helps give the lipstick improved payoff, shine, as well as good spreadability. KOBOGUARD® 5400 CCT forms a film on the lips to help provide long wear properties.

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