

# CPF-3300@10cSt & PT1BM Dispersions



Recent development of a patented, 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: #WO 2016176659A3 (2016-12-01)**  
Cosmetic and personal care formulas and methods

## Glossmeter Results (GU = Gloss Units):

Phenyl Trimethicone	Lipstick with Phenyl Trimethicone	Mascara with Phenyl Trimethicone
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°



KLP-212

## Rich & Shiny Lipstick with PT1BM Dispersions

### Part 1

- **PT1BM70U** - Kobo Products: Titanium Dioxide (And) Phenyl Trimethicone (And) Distearidimonium Hectorite (And) Isopropyl Titanium Triisostearate (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Silica 22.00%
- **COSMOL™ 43V** - Ikeda: Polyglyceryl-2 Triisostearate 20.00%
- **PT1BM30R7C** - Kobo Products: Phenyl Trimethicone (And) Red 7 Lake (And) Isopropyl Titanium Triisostearate (And) Distearidimonium Hectorite (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Silica 20.00%
- **COSMOL™ 168ARV** - Ikeda: Dipentaerythrityl Hexahydroxystearate/Hexastearate/Hexarosinate 12.80%
- **KOBOGUARD® 5400 CCT** - Kobo Products: Hydrogenated Polycyclopentadiene (And) Caprylic/Capric Triglyceride 3.00%
- **PT1BM35B1A** - Kobo Products: Phenyl Trimethicone (And) Blue 1 Lake (And) Silica (And) Isopropyl Titanium Triisostearate (And) Distearidimonium Hectorite (And) 1,2-Hexanediol (And) Caprylyl Glycol 2.90%
- **PT1BM50Y5A** - Kobo Products: Phenyl Trimethicone (And) Yellow 5 Lake (And) Isopropyl Titanium Triisostearate (And) Distearidimonium Hectorite (And) Silica (And) 1,2-Hexanediol (And) Caprylyl Glycol 2.20%

- **Euxyl® PE 9010** - Schulke & Mayr: Phenoxyethanol (And) Ethylhexylglycerin 0.10%

### Part 2

- **Ozokerite Wax White SP 1020P** - Strahl & Pitsch: Ozokerite 8.00%
- **PM WAX 82** - Toray/Kobo Products: Polyethylene (And) Microcrystalline Wax 5.00%
- **Plandool™-H** - Nippon/Kobo Products: Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate 4.00%

### Manufacturing Procedure

1. Combine Part 1 - homogenize until fully developed.
2. Add Part 2 - Prop mix at 95 °C until homogeneous.
3. Pour at 80 °C.

### Description

This luxurious feel lipstick formula features **PT1BM dispersions**. These dispersions are easy to use, offering good spreadability and a silky feel on the lips. **KOBOGUARD® 5400 CCT** forms a flexible film which improves wear properties over time. **PM WAX 82** provides structure to the stick. **Plandool™-H** is the primary emollient and moisture-protecting agent.

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**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.**

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



**INCI Name:**

*Phenyl Trimethicone (And) Pigment (And) Silica (And) Isopropyl Titanium Triisostearate (And) Distearidimonium Hectorite (And) 1,2-Hexanediol (And) Caprylyl Glycol*

Trade Name	Pigment
PT1BM30R7C	Red 7 Lake
PT1BM35B1A	Blue 1 Lake
PT1BM40R6B	Red 6 Lake
PT1BM40R28A <span style="background-color: green; color: white; border-radius: 50%; padding: 2px;">New</span>	Red 28 Lake
PT1BM50Y5A	Yellow 5 Lake
PT1BM40Y	Iron Oxide (CI 77492)
PT1BM60B	Iron Oxide (CI 77499)
PT1BM70R	Iron Oxide (CI 77491)
PT1BM70U	Titanium Dioxide

**KLP-124A Lipstick with PT1BM Dispersions**

**Part 1**

- CPF-3300@10cSt - NuSil/Kobo Products: *Phenyl Trimethicone* 27.50%
- Performalene™ 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) Distearidimonium 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) Distearidimonium 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 (CI 77491) (And) Phenyl Trimethicone (And) Distearidimonium 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) Distearidimonium 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.