

# Talc Replacements

## Clean Beauty



Talc is a naturally occurring mineral substance, crushed into a powder, widely used in beauty and personal care products. Among its many properties are pressability, texture, feel, skin adhesion and opacifying.

However, concerns about the safety of this mineral have grown in recent years. The Clean Beauty movement excludes or restricts the use of talc which has led many cosmetic companies to discontinue it. Formulators are looking for replacements, which is not an easy task for a product with

such a broad range of uses and functions.

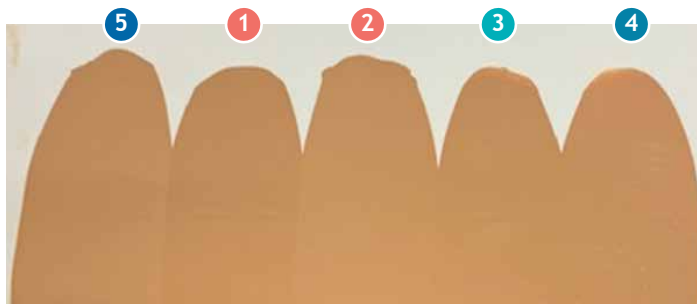
Kobo Products, using its expertise with minerals and powders, screened a large number of products and selected a few candidates. These selected ingredients were then combined to create three blends, surface treated with a patented natural-origin coating, which present similar texture profiles, tactility, pressability, pickup and payoff as talc. They can be used in Clean Beauty formulas to replace talc.

Trade Name	INCI Name	NOI (ISO 16128)	Bulk Density (g/in <sup>3</sup> )	Oil Absorption (g/100g)	Mean Particle Size (µm)
BCC-CSO-NJE4	Calcium Starch Octenylsuccinate (And) Calcium Carbonate (And) Jojoba Esters	0.92	7.22	38	13
FSL-CSO-NJE5	Calcium Starch Octenylsuccinate (And) Mica (And) Jojoba Esters	0.95	5.10	40	16
BN18-CSO-NJE6	Boron Nitride (And) Calcium Starch Octenylsuccinate (And) Jojoba Esters	0.75	5.52	39	15

11% talc or talc replacements in an anhydrous hot pour. All talc replacements are similar to talc in color, with a creamy feel and improved coverage



15% talc or talc replacements in an emulsion (foundation). All talc replacements show similar shades in drawdowns and on the skin with longer playtime than talc



32.5% talc or talc replacements in a pressed powder (Eyeshadow). All talc replacements present a creamier texture. Color and shimmer of pearlescent pigments in the formula is more intense



1 2 Commercially available talc 3 BCC-CSO-NJE4 4 FSL-CSO-NJE5 5 BN18-CSO-NJE6

**KOBO**

USA

BRASIL

UK

FRANCE

ASIA PACIFIC



KPP-127C

## Natural, Talc-free Pressed Powder

### Part 1

- **GMS-NOE4** - Kobo Products: *Mica (And) Hydrogenated Olive Oil Stearyl Esters* 44.68%
- **BCC-CSO-NJE4** - Kobo Products: *Calcium Starch Octenylsuccinate (And) Calcium Carbonate (And) Jojoba Esters* 40.00%
- **BTD-NOE2** - Kobo Products: *Titanium Dioxide (And) Hydrogenated Olive Oil Stearyl Esters* 7.00%
- **BRO-NOE4** - Kobo Products: *Iron Oxides (CI 77491) (And) Hydrogenated Olive Oil Stearyl Esters* 1.00%
- **BYO-NOE4** - Kobo Products: *Iron Oxides (CI 77492) (And) Hydrogenated Olive Oil Stearyl Esters* 0.86%
- **BBO-NOE4** - Kobo Products: *Iron Oxides (CI 77499) (And) Hydrogenated Olive Oil Stearyl Esters* 0.46%

### Part 2

- **OLIVE OIL (PURE)** - Jeen International: *Olea Europaea (Olive Fruit) Oil (Pure)* 5.50%
- **Lexgard® Natural** - Inolex: *Glyceryl Caprylate (And) Glyceryl Undecylenate* 0.50%

### Manufacturing Procedure

1. Combine Part 1 and blend on high speed until pigments are uniform.
2. Add Part 2 to Part 1 and blend on high speed until oil is dispersed.
3. Press at 1000 psi.

### Description

This light-as-air, natural pressed powder can be used on multiple complexions to even out skin tone. The use of Kobo's pigments and filler treated with Natural Olive Esters (NOE) provides a creamy feel and improves pressability. Powders can be pressed without additional dry binders when using NOE treated pigments. **BCC-CSO-NJE4** is a talc replacement that improves skin adhesion and contributes to the elegant texture.



KLF-338

## Talc Free Touch-up Foundation and Concealer

### Part 1

- **Myritol® 331** - BASF: *Cocoglycerides* 22.00%
- **OD55YJE** - Kobo Products: *Iron Oxides (CI 77492) (And) Octyldodecanol (And) Jojoba Esters (And) Trihydroxystearin* 14.93%
- **OD75CJE** - Kobo Products: *Titanium Dioxide (And) Octyldodecanol (And) Jojoba Esters (And) Trihydroxystearin* 10.63%
- **Eutanol® G** - BASF: *Octyldodecanol* 10.00%
- **OD75RJE** - Kobo Products: *Iron Oxides (CI 77491) (And) Octyldodecanol (And) Jojoba Esters (And) Trihydroxystearin* 2.26%
- **OD75BJE** - Kobo Products: *Iron Oxides (CI 77499) (And) Octyldodecanol (And) Jojoba Esters (And) Trihydroxystearin* 2.18%

### Part 2

- **LUSPLAN™ DD-DA7 (Non-GMO)** - Nippon Fine Chemicals /Kobo Products: *Dimer Dilinoleyl Dimer Dilinoleate* 10.46%
- **RICE BRAN WAX** - Strahl & Pitsch: *Rice (Oryza Sativa) Wax* 8.00%
- **CARNAUBA WAX SP 63P** - Strahl & Pitsch: *Copernicia Cerifera (Carnauba) Wax* 6.00%
- **BV-OSC** - Barnet: *Tetrahexyldecyl Ascorbate* 2.00%
- **Lexgard® O** - Inolex: *Caprylyl Glycol* 0.50%

### Part 3

- **FSL-CSO-NJE5** - Kobo Products: *Calcium Starch Octenylsuccinate (And) Mica (And) Jojoba Esters* 11.04%

### Manufacturing Procedure

1. Combine Part 1 and homogenize with a high speed about 5000 RPM
2. Remove Part 1 from homogenizer and use speed propeller. Heat to 85°C
3. Add part 2 to part 1 after temperature reaches 85°C. Ensure proper vortex with high speed and everything is homogeneously mixed
4. Slowly add Part 3
5. Pour into compacts at 80°C

### Description

A shade specifically formulated for a deeper skin tone. This anhydrous hot pour compact could be used as a foundation or spot correcting concealer. This formula provides high coverage to the face. It is composed of the OD pigmentary dispersions, Natural Origin and Cosmos Certified dispersions of Titanium Dioxide and Iron Oxides, which provide exceptional coverage and create the shade. LUSPLAN™ DD-DA7 is plant-derived lanolin oil replacement with moisturizing and skin softening properties. **FSL-CSO-NJE5** is a talc replacement which improves skin adhesion and contributes to the elegant creamy texture