

BLACK-2 WBG45

Non-Dusting Carbon Black



Carbon black (INCI Name: Black 2) offers a jet black color with higher opacity and tinting strength compared to black iron oxide. Although it is approved for use by the FDA, dusting is always an issue in a laboratory or plant environment.

Kobo now offers a non-dusting carbon black:

BLACK-2 WBG45

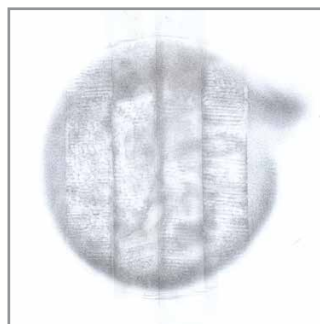
These granules made with water and Butylene Glycol are easy to use with some required milling and/or grinding. With around 45% pigment loading, excellent color strength can be achieved. Regulatory and respiratory issues are avoided while the facility remains much cleaner.

Kobo recommends BLACK-2 WBG45 primarily for mascaras and eyeliners; it can also be used in emulsions (O/W, S/W, W/O, W/S) and aqueous suspensions.

INCI Name:

Black 2 (And) Water (And) Butylene Glycol

Dusting test



Carbon black powder



BLACK-2 WBG45

Method : 10g of carbon black powder (or BLACK-2 WBG45) are placed in a 250ml beaker (3.5 in tall). A glass plate covered with double-sided tape is placed on the top of the beaker so that dust can adhere to it. After 30 min of agitation with a magnetic stirrer, a picture of the glass plate is made (see above). This test clearly shows that, while carbon black powder generates a lot of dust (left), BLACK-2 WBG45 generates almost none (right).

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KMA-013A

Koboguard® Waterproof Lengthening Mascara with MST-547

Part 1

- Permethyl® 99A - Presperse: *Isododecane* 21.64%
- Koboguard® 5400 IDD - Kobo Products: *Hydrogenated Polycyclopentadiene (And) Isododecane* 14.29%

Part 2

- SUMECTON SAN-P - Kobo Products: *Quaternium-18 Hectorite* 2.00%
- Ethanol SD 39C (95%) - Warner-Graham: *SD Alcohol-39C* 1.00%

Part 3

- **BLACK 2-WBG45** - Kobo Products: *Black 2 (And) Butylene Glycol (And) Water* 10.00%
- Permethyl® 99A - Presperse: *Isododecane* 10.00%
- SF 1540 - Momentive: *Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone* 3.00%
- MST-547 - Kobo Products: *Polymethylsilsequioxane* 2.00%
- KTZ® INTERFINE BLUE - Kobo Products: *Mica (And) Titanium Dioxide* 1.00%
- MSS-500/20N - Kobo Products: *Silica* 1.00%

Part 4

- Deionized Water 11.50%
- Sodium Chloride - Morton Salt: *Sodium Chloride* 0.25%
- Methyl Paraben NF - International Sourcing: *Methylparaben* 0.10%

Part 5

- Beeswax SP422 - Strahl & Pitsch: *Beeswax* 6.00%
- Syncrowax HGL-C - Croda: *C18-36 Triglycerides* 5.00%
- Carnauba Wax - Strahl & Pitsch: *Copernica Cerifera (Carnauba) Wax* 3.00%
- Polyethylene 617A - Honeywell: *Polyethylene* 3.00%
- Propyl Paraben NF - International Sourcing: *Propylparaben* 0.10%

Part 6

- Deionized Water 2.00%
- dl-Panthenol - Roche: *Panthenol* 0.35%
- Germall® 115 - ISP: *Imidazolidinyl Urea* 0.25%

Part 7

- Permethyl® 99A - Presperse: *Isododecane* 2.00%
- CELL-U-LASH™ 150 - Kobo Products: *Cellulose* 0.50%
- Vanillin - Cirtus & Allied Essence: *Vanillin* 0.02%

Manufacturing Procedure

Use explosion-proof mixers and equipment during batching process

1. Combine Part 1 materials. Add the SUMECTON SAN-P slowly to Part 1. Stir with a Cowles Dissolver in a stainless steel beaker at high speed for 20 minutes. Add the Ethanol and stir an additional 20 minutes.
2. Combine the ingredients in Part 3 in a stainless steel beaker and stir at high speed with a Cowles Dissolver for 45 minutes. Add gel Parts 1 and 2 to Part 3 to form the base.
3. Combine aqueous Part 4 ingredients and stir until clear.
4. Add Part 4 slowly to the base and continue homogenizing while heating to 85°C.
5. Add the waxes (Part 5) at 85°C to the base and continue to homogenize for 5 minutes. Begin air cooling.
6. At 65°C, QS solvent loss.
7. At 42°C add the Panthenol/Germall® solution.
8. At 38°C add the CELL-U-LASH™ slurry. Continue homogenizing and cool to 25°C. Fill into appropriate containers.

Description

Koboguard® 5400 IDD forms a flexible film that wraps and binds the color (Kobo's Carbon **BLACK 2-WBG45**) around the lashes. KTZ® INTERFINE BLUE provides a subtle blue shimmer. Silica, MSS-500/20N and Polymethylsilsequioxane, MST-547 combine to help build the lashes while CELL-U-LASH™ 150 provides lengthening. SUMECTON SAN-P gels and stabilizes the formulation.

Specification:

Ph: NA

Viscosity: RVT T-F @ 0.5 rpm = 72,000 poise; @ 1.0 rpm = 54,200 poise.