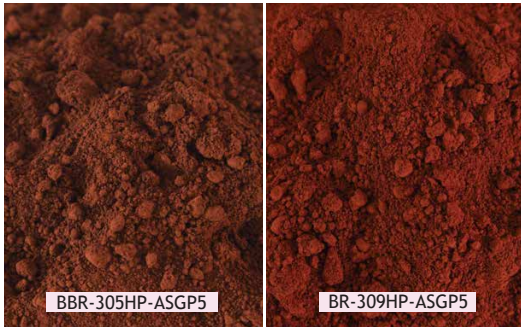
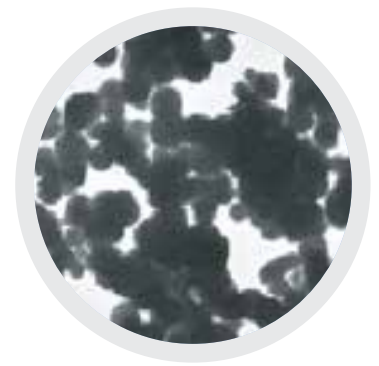


# High Purity, Brown Iron Oxides

## BBR-305HP-ASGP5 & BBR-309HP-ASGP5



### BBR-305HP-ASGP5 & BBR-309HP-ASGP5

INCI Name: *Iron Oxides (CI 77491)*  
(And) *Stearoyl Glutamic Acid*  
(And) *Polyhydroxystearic Acid*

### Advantages

**Better  
Color Match for  
Melanin Rich Skin**

Provides darker and higher chroma shades than a regular Red and Yellow blend when Black Iron Oxide is added

**High Purity**

Low heavy metal content - Lead < 1 ppm -  
Arsenic < 1 ppm - Mercury < 1 ppm

**Surface  
Treated**

ASGP treatment - superdispersible, natural hybrid treatment that requires minimal energy during grinding phase for a high intensity color with a creamy feel

### Masstone

BBR-309HP-ASGP5  
REDDISH



BBR-305HP-ASGP5  
BLUISH



Swatches of the  
pigment on skin:

Left: BBR-309HP-ASGP5  
Middle: BWRO-ASGP3  
Right: BBR-305HP-ASGP5

### Formulation Guidelines & Notes

- **Customizable Color Impact:** Use higher levels to achieve your desired color intensity.
- **Versatile Application:** Suitable for powder, stick, gel, and emulsion formats.
- **Smart Shade Matching:** Choose BBR-309HP-ASGP5 for warmer tones and BBR-305HP-ASGP5 for cooler tones.



**KOBO**

USA

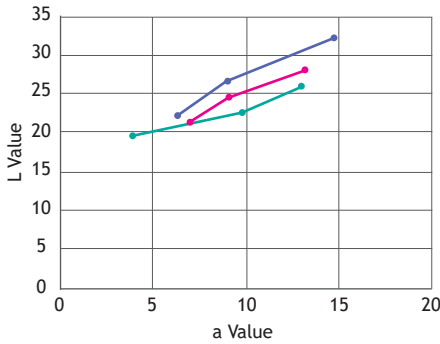
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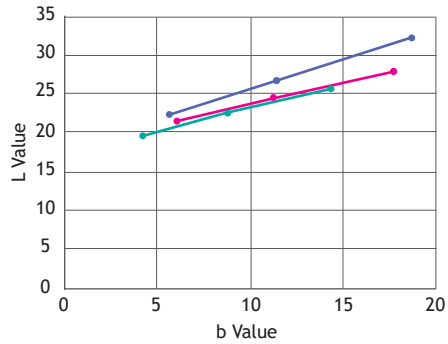
FRANCE

ASIA PACIFIC

# Performance



Graph 1.: L\*a\*b\* values

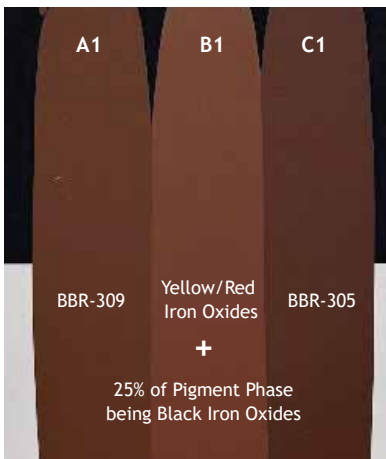


Graph 2.: L\*a\*b\* values

- Conventional Iron Oxides Yellow:Red 1:1
- BBR-309HP-ASGP5
- BBR-305HP-ASGP5

**BBR offers lower brightness and higher chroma when combined with Black Iron Oxide, allowing for the creation of deeper, richer shades with less ashiness.**

## KLF-322-EU Foundation Drawdowns:



KLF-322-EU

## D5-Free Non-Transfer Foundation with ASGPs

### Part 1

- BRB DM 2 - BRB International BV: *Dimethicone* 14.00%
- KOBOGUARD® MQ75ETS - Kobo Products: *Trimethylsiloxysilicate (And) Ethyl Trisiloxane* 11.00%
- Pigment Phase - see details below - Kobo Products 14.00%
- Purolan® IDD - Lanxess: *Isododecane* 10.00%
- KSG-820 - Shin-Etsu: *Lauryl Dimethicone Polyglycerin-3 Crosspolymer (And) Isododecane* 3.00%
- KF-6038 - Shin-Etsu: *Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone* 3.00%
- Garamite 7308 XR - Eckart/BYK: *Quaternium 90 Sepiolite & Quaternium 90 Montmorillonite* 1.80%

### Part 2

- Deionized Water - Water 32.00%
- Butylene Glycol - Univar: *Butylene Glycol* 5.00%
- Mg Sulfate Hept - Fisher Scientific: *Magnesium Sulphate Heptahydrate* 1.20%
- SymDiol® 68 - Symrise: *1,2 Hexanediol (and) Caprylyl Glycol* 1.00%

### Part 3

- MSS-500/N - Kobo Products: *Silica* 2.00%
- CELLULOBEADS D-5-ASG3 - Kobo Products: *Cellulose (And) Stearoyl Glutamic Acid* 2.00%

### Manufacturing Procedure

1. Combine Part 1, by first dispersing the powders in emollients and adding the emulsifiers and other ingredients.
2. Prepare Part 2.
3. Add Part 2 to Part 1 under prop stirrer, 1000 rpm.
4. Homogenize for a minute at 2000-3000 rpm and move the beaker back to the prop stirrer and add the powders of Part 3.

### Description

A full coverage, D5-free and non-transfer w/si foundation featuring the superdispersible ASGP treated pigments. Cyclopentasiloxane has been the number one choice of volatile emollient for non-transfer foundation formulations. Today, due to environmental concerns, there is a desire to formulate with alternatives without having to compromise on the sensory properties of formulas achieved with D5. This formula uses 2 cSt Dimethicone and Isododecane, which are popular alternatives providing quick drying. The ASGP treated pigments disperse extremely easily and quickly in these emollients, using much lower levels of energy than would be usually required. The formulation is rendered non-transfer by the use of KOBOGUARD® MQ75ETS. A high level of film formers could cause tackiness which has normally been mitigated against by the use of PMSQ powders, which today fall into the microplastic category. This formulation uses a combination of MSS-500/N and CELLULOBEADS D-5-ASG3 to provide softness and creaminess and reduce tack.

## 14% Total Pigment Phase

- **Formula A1:** uses 75% BBR-309HP-ASGP5 + 25% Black Iron Oxides
- **Formula B1:** uses 75% BWYO-ASGP3 + BWRO-ASGP3 (1:1) + 25% Black Iron Oxides
- **Formula C1:** uses 75% BBR-305HP-ASGP5 + 25% Black Iron Oxides
- Formulas A3, B3, and C3 use the same pigments as above but with Black Iron Oxides constituting 75% of the pigment phase

**KOBO**

High Purity, Brown Iron Oxide

www.koboproducts.com