

CARESS® Boron Nitride

CARESS® BN is a new line of cosmetic boron nitride (BN) manufactured in ISO 9001 certified facilities and matches the international requirements of the personal care industry. These BN powders are manufactured with premium technology resulting in high purity and quality products. The synthetic nature of these products minimizes the level of impurities; particularly in heavy metals which are present at a level below 1ppm.

BN platelets are available in a broad range of particle sizes and crystal morphologies contributing to diverse optical appearance and tactility.

CARESS® BN powders offer unique

properties in comparison to other fillers and texturizers (such as mica, PMMA, bismuthoxychloride, talc and nylon 12) in the areas of spreadability, skin adherence, degree of skin coverage, softness, and payoff. These properties are a result of particle size, crystal morphology, and surface characteristic.

The CARESS® BN series offers a range of opaque and translucent powders which provide cosmetic formulations with a very soft and silky touch, and appearance from matte to shiny. With this said, all grades offer superior softness and excellent skin adherence.

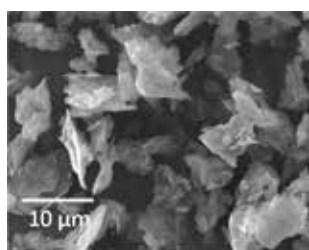


Figure 1. A microphotograph of CARESS® BN02; 12 kX.

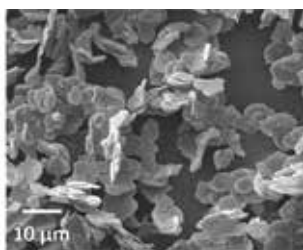


Figure 2. A microphotograph of CARESS® BN06; 1 kX.

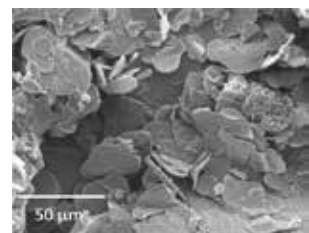


Figure 3. A microphotograph of CARESS® BN18; 500 kX.

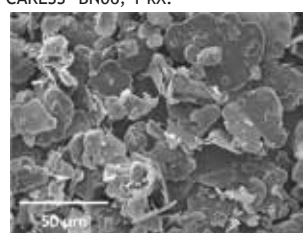


Figure 4. A microphotograph of CARESS® BN30; 500 kX.

CARESS® BN powder properties:

- ▶ Superior softness and tactility
- ▶ Superb spreadability
- ▶ Excellent adherence
- ▶ Soft Focus Effect especially smaller particle size grades
- ▶ Long lasting effect
- ▶ High oil absorption
- ▶ Good coverage

BN is excellent for enhanced feel in pressed powders and the product offers improved compressibility. BN will also give a creamy texture to eyeshadow. When used in lipsticks, BN helps to reduce tack and improve wear while offering lubricating properties which help to improve the mold release of the stick.

All Caress® Boron Nitride products are available with various hydrophobic surface treatments, including Isopropyl Titanium Triisostearate (ITT) and Triethoxycaprylylsilane (11S). Surface treatments are excellent for enhancing flow, dispersion, wear and appearance.

Product	Mean Crystal/ Particle Size (µm)	Specific Surface Area (m ² /g)	Oil Absorbtion* (g/100g)	Appearance
CARESS® BN02	2	15	96	Very white/high hiding powder
CARESS® BN06	6	10	110	Opaque
CARESS® BN09	9	10	97	Opaque
CARESS® BN12	12	2	88	Translucent
CARESS® BN15	15	1.5	90	Translucent
CARESS® BN18	18	1.3	76	Shiny
CARESS® BN30	30	1	80	Sparkling

*Oil Abs: ASTM, D281-84

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CARESS Boron Nitride

Recommended Applications

- ▶ Emulsions
- ▶ Hot Pours
- ▶ Anhydrous Gels
- ▶ Pressed/Loose Powders

Pressed Powder with Caress® BN

Formula KPP-064A

Part 1

● SERICITE GMS-4C - Kobo Products:	
Mica	70.48%
● LTD-11S2 - Kobo Products:	
Titanium Dioxide	
(And) Triethoxycaprylylsilane	7.00%
● MST-203 - Kobo Products:	
Polymethylsilsesquioxane	5.00%
● CARESS® BN 09 - Bent Tree/Kobo Products:	
Boron Nitride	5.00%
● ZINC MYRISTATE - Kobo Products:	
Zinc Myristate	2.00%
● BYO-11S2 - Kobo Products:	
Iron Oxides (CI 77492) (And)	
Triethoxycaprylylsilane	1.00%
● BRO-11S2 - Kobo Products:	
Iron Oxides (CI 77491) (And)	
Triethoxycaprylylsilane	0.86%
● BBO-11S2 - Kobo Products:	
Iron Oxides (CI 77499) (And)	
Triethoxycaprylylsilane	0.46%
● Propyl Paraben NF - International Sourcing:	
Propylparaben	0.10%
● Methyl Paraben NF - International Sourcing:	
Methylparaben	0.10%

Part 2

● Lexol® PG-865 - Inolex Chemical Company	
Propylene Glycol Dicaprylate/Dicaprate	2.50%
● ELEMENT14 PDMS 20 - Momentive:	
Dimethicone	2.50%
● ELEMENT14 PDMS 350 - Momentive:	
Dimethicone	2.00%
● SS4267 - Momentive:	
Dimethicone (And) Trimethylsiloxysilicate	1.00%

Manufacturing Procedure

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well and micropulverize.
4. Press at 500 psi.

Description

This powder features Kobo's CARESS® BN09, Boron Nitride, for superior softness and tactility, superb spreadability, excellent adherence, long lasting effect, and good coverage. SERICITE GMS-4C gives a glide-on application. The Silane-Treated Pigments disperse easily, adhere to the skin, and resist darkening during wear. MST-203 gives slip and a great creamy feel. ZINC MYRISTATE also contributes to great feel and adherence on the skin.