



TRÈS BN[®]

Boron Nitride Cosmetic Powders

FOUNDATION WITH TRÈS BN GRADE PUHP3002

A high hiding and natural looking foundation with excellent spreadability, adhesion and soft texture. The color is medium-beige with slight pink undertones.

See page 2 for Ingredients

PROCEDURE

Add fluid silicones to the cross polymers under agitation until system is homogeneous. Add preservative (phase A). Prepare the water phase (phase B) and slowly add it to phase A under slow agitation. When water is incorporated speed up agitation. Thoroughly disperse pigments and UV-filters into the fluid silicones (phase C) and add to phase A+B under fast stirring. Disperse PUHP3002 into the foundation.

Notes

TRÈS BN, PUHP3002 can be dispersed into fluid silicones of phase C together with pigments. Alternatively, the dispersion of powders can be incorporated into phase A before emulsification.

The pigments used are characterized as being easy to disperse. However, the pigment dispersion can be further improved by a three-roll mill process.

What is TRÈS BN ?

Hexagonal boron nitride (hBN) is a synthesis of Borax (natural mineral) and a Nitrogen source at high temperature resulting in a lamellar structure that resembles graphite, except pure hBN is white. TRÈS BN[®] Cosmetic Powders are Ultra-High Purity (UHP) versions of this lamellar form with each layer or cleavage face containing boron and nitrogen. There is no B-N bonding between layers and therefore planes slide over one another, creating a soft and lubricating effect.

Typical Properties of TRÈS BN Powder PUHP3002

Crystal Structure	Hexagonal
Particle Size	2 um mean particle size
Surface Area	15 – 20 m ² / gram
BN	99 + %
Heavy metals (Hg, As, Pb)	< 1 PPM



USA:

Saint-Gobain Advanced Ceramics

Boron Nitride Products
168 Creekside Drive
Amherst, NY 14228-2027
Tel: (716) 691-2052
www.BN.saint-gobain.com

EUROPE:

Saint-Gobain Solcera

Z.I. No. 1 Rue l'Industrie
27025 Evreux, Cedex
FRANCE
Tel: 33 (0)2 32 29 42 00
www.solcera.saint-gobain.com

www.TRESBN.com

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total, to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license.

	Trade Name	INCI Name	Function	Without BN	With BN
A.	KSG-210 (<i>Shin-Etsu</i>)	Dimethicone (and) Dimethicone/PEG-10/15 Crosspolymer	Emulsifier, texturizing	3,00	3,00
	KSG-15 (<i>Shin-Etsu</i>)	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	Thickener, texturizing	4,00	4,00
	KF-6038 (<i>Shin-Etsu</i>)	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	Emulsifier	1,25	1,25
	KF-995 (<i>Shin-Etsu</i>)	Cyclopentasiloxane	Vehicle	10,00	10,00
	Dekaben (<i>Jan Dekker</i>)	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben (and) Butylparaben	Preservative	0,60	0,60
B.	Deionized Water	Aqua		to 100	to 100
	Sodium Chloride	Sodium Chloride	Stabilizer	1,00	1,00
C.	KF-995 (<i>Shin-Etsu</i>)	Cyclopentasiloxane	Vehicle	5,00	5,00
	KP-545 (<i>Shin Etsu</i>)	Cyclopentasiloxane (and) Acrylates/Dimethicone Copolymer	Dispersing, film former	2,00	2,00
	FDP-C White (<i>Jigen</i>)	Talc (and) C.I. 77891 (and) Dimethicone/Methicone Copolymer	Pigment	5,00	5,00
	FDP-C Yellow (<i>Jigen</i>)	Talc (and) C.I. 77891 (and) C.I. 77492 (and) Dimethicone/Methicone Copolymer	Pigment	2,27	2,27
	FDP-C Red (<i>Jigen</i>)	Talc (and) C.I. 77891 (and) C.I. 77491 (and) Dimethicone/Methicone Copolymer	Pigment	0,88	0,88
	FDP-C-Da Red (<i>Jigen</i>)	Talc (and) C.I. 77491 (and) Dimethicone/Methicone Copolymer	Pigment	0,50	0,50
	FDP-C Black (<i>Jigen</i>)	Talc (and) C.I. 77891 (and) C.I. 77499 (and) Dimethicone/Methicone Copolymer	Pigment	0,88	0,88
	FDP-C-Da Black (<i>Jigen</i>)	C.I. 77499 (and) Dimethicone/Methicone Copolymer	Pigment	0,50	0,50
	Parsol MCX (<i>DSM</i>)	Ethylhexyl Methoxycinnamate	UV-B filter	2,00	2,00
	Z-Cote HP1 (<i>Basf</i>)	Zinc Oxide (and) Triethoxycaprylylsilane	UVA, UV-B filter	2,00	2,00
D.	PUHP3002 (<i>Saint-Gobain</i>)	Boron Nitride	Texturizing	-	3,00
	Talc AES-61R (<i>Toshiki</i>)	Talc (and) Methicone	Filler	3,00	-
					100.00