



KLF-334-EU

# Silicone Free, Cold Process SPF Foundation with ZnO



%	INGREDIENT	INCI NAME	SUPPLIER
<b>Part 1</b>			
15.00	<b>NHD75MZCOE</b>	Zinc Oxide (And) C13-15 Alkane (And) Polyglyceryl-2 Dipolyhydroxystearate (And) Hydrogenated Olive Oil Stearyl Esters (And) Trihydroxystearin	<b>Kobo Products</b>
12.00	<b>NHP60MZ8SG</b>	Zinc Oxide (And) C13-15 Alkane (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
10.00	Bentone Luxe XO	C13-15 Alkane , Distearidimonium Hectorite, Polyglyceryl-3 Polyricinoleate	Elementis
9.10	Beausense Air	Ethylhexyl Pelargonate	RoelmiHPC
8.00	<b>BTD-ASGP3</b>	Titanium Dioxide (CI 77891) (CI 77891) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
4.00	<b>KOBOGUARD® NATURAL 2063-NDA</b>	Glyceryl Hydrogenated Rosinate (And) C9-12 Alkane	<b>Kobo Products</b>
2.50	<b>BWYO-ASGP3</b>	Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
2.00	<b>SunBoost ATB Natural</b>	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	<b>Kobo Products</b>
0.40	<b>BWRO-ASGP3</b>	Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
0.20	<b>BWBO-ASGP3</b>	Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
<b>Part 2</b>			
30.00	P.water	Deionized Water	x
2.00	Dub Diol	Methylpropanediol	Stearinerie Dubois
1.00	Mg Sulfate Hept	Magnesium Sulfate Heptahydrate	Fisher Scientific
0.40	Symsave H	Hydroxyacetophenone	Symrise
0.40	Lexguard Natural MB	Glyceryl Caprylate (and) Glyceryl Undecylenate	Inolex
<b>Part 3</b>			
1.50	<b>MSS-500/N</b>	Silica	<b>Kobo Products</b>
1.50	<b>ASO-NJE2</b>	Aluminum Starch Octenylsuccinate (And) Jojoba Esters	<b>Kobo Products</b>
<b>100.00</b>			

## Description:

This Foundation is a natural, silicone free, cold process formula that also provides UV protection benefits. Two Zinc Oxide dispersions, NHD75MZCOE & NHP60MZ8SG, both based in vegetable derived alkane with light skin feel and high spreadability, have been used for the broad spectrum UV protection. KOBOGUARD® NATURAL 2063-NDA is used as a film former to help form an even layer of the formula on the skin and also to increase the longevity. Sunboost ATB Natural is used to boost SPF/PFA and provide antioxidant protection. ASGP treated pigments are used for easy dispersion and reproducible colour development. ASO-NJE2 and MSS-500/N increase spreadability, reduce tack and mattify the formula.

## Manufacturing Procedure:

1. Mix all ingredients of Part 1 except for the powder pigments and homogenise under Silverson round hole head for 5 minutes until smooth.
2. Add the powder pigments and homogenise under square hole head for around 2-3 minutes to disperse the pigments.
3. Prepare Part 2.
4. Add Part 2 to Part 1 under propeller stirrer at 1000 RPM, once all water has been taken in, homogenise at 3500 RPM for 3-4 minutes.
5. Add powders of Part 3 under propeller stirrer.

## Active Inaredient(s):

Zinc Oxide 17.64%

## Testing:

SPF: in vivo on 5 subjects  
 UVA-PF: in vitro method  
 CW: FDA method



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November, 2022

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