



Nature Silk Sunscreen SPF 30+, Broad Spectrum (SU-WO 18 V2)

A 100% natural water-in-oil sunscreen with a silky smooth texture and great spreadability. Overall sensory is incredibly light with no tacky afterfeel or residual whiteness.

Applecare PDS 300 evenly distributes highly- loaded mineral UV filters to provide a smooth sensory with UV-blocking effects. It greatly reduces the tacky after- feel.

G-GEL Eco-HMS is an organoclay gel designed for clean beauty applications. It greatly boosts suspension and sensory of mineral pigments, making it a crucial ingredient in stabilizing mineral sunscreens.

PhytoCare is a magic hydration powerhouse active which forms a moisture- restoring flexible film to hydrate and repair the skin, thus rebuilding skin elasticity.

G-Block products are COSMOS, NPA approved, high active mineral UV filter dispersions which give predictable SPF and broad-spectrum benefits. Their excellent spreadability simplifies formulation development and the manufacturing process.

Specifications

- 🍏 SPF 35 (FDA protocol, 1 subject)
- 🍏 CW: 371 nm, broad spectrum
- 🍏 Yield Stress: 18,300,000 cP
- 🍏 Viscosity @ 10 rpm: 57,200 cP
- 🍏 50°C oven: 1 month stable
- 🍏 Freeze-Thaw: Passed 3 cycles

PHASE	INCI NAME (TRADE NAME)	USAGE (WT%)
A	Distilled Water	40.15
	Snow Mushroom Extract (PhytoCare-HA CG 1M)	0.12
	Propanediol	2.70
	Sodium Chloride	0.90
	Glycerine	2.70
	Preservative	0.38
B	G-Block DZ 370 CCT	30.0
	Applecare PDS 300	2.25
	G-GEL Eco-HMS	4.50
	Ethyl Macadamiate (Floramac 10)	2.25
	C13-15 Alkane (Hemisqualane)	2.25
C	Polyglyceryl-4 Diisostearate/ Polyhydroxystearate/Sebacate (Iso1an GPS)	2.80
D	Dodecane (Parafol 12-97)	9.00

Processing Method

1. Mix Phase A at 300-500 rpm for 10 minutes at room temperature, and then heat up to 80 Celsius.
2. Homogenize Phase B (4000-4500 rpm, 20 minutes) then add Phase C and homogenize another 5 minutes, heat up to 80 Celsius (alternative: use dispersion blade, 30 minutes at 800 - 1000rpm)
3. Slowly add Phase A into Phase BC into with propeller mixer while increasing speed to 2000 rpm, stir for 5 minutes.
4. Homogenize the mixture for 2 minutes.
5. Slowly add Phase D into Phase ABC while cooling down to room temperature.

Create Possibilities

EDITION: MAR 2019
REF: NS 1903-1A