



Advanced Nature Silk Premium Sunscreen, SPF 58, Broad Spectrum (SU-WO 17S)

A 100% clean water-in-oil sunscreen with a silky smooth texture and great spreadability. This is a pure mineral sunscreen that great stability despite the impressively low viscosity. 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. It also shows an excellent thermal stability and suspension power in this low viscosity formulation and a significant SPF enhancement.

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 58; FDA protocol, 1 subject
- 🍏 CW: 371 nm, Broad Spectrum
- 🍏 Viscosity @ 10 rpm: 3, 522 cP
- 🍏 50°C oven: 1 month stable
- 🍏 Freeze-Thaw: Passed 3 Cycles

PHASE	INCI NAME (TRADE NAME)	USAGE (WT%)
A	Distilled Water	20.9
	Propanediol	3.00
	Sodium Chloride	0.80
	Preservative	0.30
B₁	G-Block DZ 370 CCT	35.0
	Applecare PDS 300	3.00
	G-GEL Eco-HMS	2.50
B₂	Ethyl Macadamiate (Floramac 10)	14.5
C	C13-15 Alkane (Hemisqualane)	18.0
	Polyglyceryl-4 Diisostearate/ Polyhydroxystearate/Sebacate (Iso1an GPS)	2.00

Processing Method

1. Mix Phase A at 500 rpm for 10 minutes at room temperature.
2. Homogenize Phase B₁ (4000 rpm, 20 minutes) at 70 Celsius. Add Phase B₂ and homogenize for another 10 minutes. Then add and mix Phase C with a dispersion blade at room temperature.
3. Slowly add Phase A into Phase BC with a dispersion blade while increasing speed to 1500 rpm, stir for 15 minutes.

Significant Thermal Stability and SPF Enhancement from Ggel In the Same Formulation

SPF 50	SPF 50	SPF 58	SPF 58
G-BLOCK DZ 370 CCT	G-BLOCK DZ 370 CCT	G-BLOCK DZ 370 CCT	G-BLOCK DZ 370 CCT
APPLECARE PDS 300		APPLECARE PDS 300	
		G-GEL ECO-HMS	G-GEL ECO-HMS
SETTLEMENT IN 1 DAY IN 50° C OVEN	SETTLEMENT IN 1 DAY IN 50° C OVEN	STABLE FOR 1 MONTH IN 50° C OVEN	STABLE FOR 1 MONTH IN 50° C OVEN

Create Possibilities

EDITION: JUL 2019
REF: NS 1903-1A
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