



Clean Guard SPF 54 Water-Free Sunscreen (SU-Anh 002)

A pure, clean mineral sunscreen that doesn't depend on unreliable SPF boosters to reach SPF 50+. It features improved transparency over traditional SPF 50 mineral sunscreens with little to no drag during application.

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.

OleoFLEX are film forming elastomeric texturizers for natural oils. They increase water resistance and lock the UV actives and natural oils onto the skin.

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:53.7 (FDA protocol, 2 subjects)
- 🍏 Critical Wavelength: 374 nm, broad spectrum
- 🍏 Yield Stress: 821,500 cP
- 🍏 Viscosity at 10 rpm: 92,200 cP
- 🍏 Freeze-Thaw: Passed 3 cycles
- 🍏 50°C oven: On-going

PHASE	INCI NAME (TRADE NAME)	USAGE (WT%)
A	OleoFlex EG-200	0.80
	OleoFlex FG-100	3.50
	G-Gel Eco-HMS	20.0
	Isononyl Isononoate	8.00
	C13-15 Alkane (Hemisqualane)	8.00
	G-Block DZ 370 CCT	14.00
	G-Block DT 200 CCT	13.00
	G-Block DTB 300 CCT	2.00
	Applecare PDS-300	4.00
	Dimethicone	7.00
B	Trihydroxystearin (Rheocin)	1.50
C	Isodecyl Neopentanoate (DOWSIL™ EL-8051 IN)	7.00
D	Isododecane	5.00
E	Nylon 12	4.00
	Aluminum Starch Octenylsuccinate (Agenaf1o OS 9051)	2.00
F	Preservative	0.20

Processing Method

1. Homogenize Phase A at 3500 - 4000 rpm for 20 minutes at room temperature.
2. Add Phase B to Phase A and continue homogenizing 10 - 15 minutes at 40 - 55 Celsius.
3. Add Phase C and homogenize for 10 minutes at room temperature.
4. Add Phase D and homogenize for 5 minutes at room temperature.
5. Move to dispersion blade and add Phase E while mixing at 1000 RPM for 5-10 minutes. Then add Phase F to the system.

Create Possibilities

EDITION: MAR 2019
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