

**Pure Mineral Sunscreen, SPF 35, Broad Spectrum**

- **100%** natural or made from naturally-derived ingredients.
- **NO** chemical UV filters, uses only mineral Titanium Dioxide for long lasting UV protection under the sun.
- Designed for outdoor sports, for babies and people with sensitive skin.
- Incredibly light and silky sensory, rubs instantaneously into the skin without greasy sensory or white residue.
- Great spreadability simplifies formulation development and manufacturing process with great sensory profile.

G-Blocks are :

- **COSMOS, ECOCERT and NPA –approved** and globally approved as natural UV filters for natural sunscreens.

- **G-Block DT 200 CCT:** Fine and stable dispersion of **45 % of** UV grade Titanium Dioxide with UVB protection benefit, luminous on skin and smooth sensory. Use as an SPF booster.
- **G-Block DTB 300 CCT:** Fine and stable dispersion of **60 % of** UV grade Titanium Dioxide with UVA/B broad-spectrum protection benefit, luminous on skin and smooth sensory. Use as an SPF booster.

Estimated performance based on a SU OW-0018. V.1: **In-vivo SPF 36 (FDA, 2 subjects), CW = 370 nm**

Phase	INCI Name, (Trade Name)	Wt %	Process:
<b>A</b>	Distilled Water	50.9	1. Stir Phase A with propeller mixer (500-700 rpm) for 10 minutes and homogenize at 4000 rpm for 10 minutes at RT until Vivapur COS-5 is fully dissolved, and then heat up to 80C.
	Xanthan Gum (Keltro CS-SFT)	0.13	
	Microcrystalline Cellulose (and) Cellulose gum (Vivapur COS-5)	1.30	
	Glycerine	3.00	
	Phenoxyethanol (and) Ethylhexyl Glycerin (Euxyl PE 9010)	0.70	
<b>B</b>	<b>G-Block DT 200 CCT</b>	<b>14.5</b>	2. Mix and heat Phase B at 300-500 rpm until mixture reaches 80C.
	<b>G-Block DTB 300 CCT</b>	<b>7.50</b>	
	Caprylic/Capric Triglyceride	9.00	3. Slowly add Phase B into Phase A with propeller mixer for 5 minutes, and then homogenize 4000-4500 rpm at 75-80 C for 5 minutes.
	Cearyl Alcohol (and) Coco Glucoside (Montanov 82)	3.00	
	Cetearyl Alcohol	1.00	
	Helianthus Annuus (Sunflower) seed oil	1.00	
	Coco-Glucoside (and) Glyceryl Oleate (Lamssoft PO65)	1.00	
	Hydrogenated Glyceryl Abietate (Meristant 101S)	1.00	
	Ethyl Macadamiate (Floramac 10)	6.00	
Fragrance	q.s.	4. Switch to a propeller mixing while cooling down to RT. Add water that may evaporate during process and fragrance.	
<b>Feature</b>	Viscosity (cP) @ 10 rpm	10,000	pH 7.3