

## Sheer Invisible Natural Sunscreen SPF 30+, Broad Spectrum

- **NO** chemical UV filters, uses only Zinc Oxide, designed for outdoor sports, for babies and people with sensitive skin.
- Incredibly light sensory, blends instantaneously into the skin with no 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.
- Transparency: DZ370CCT > DZ480CCT ≥ Benchmark (Z-cote).

➤ **G-Block DZ 370CCT:** Fine and stable dispersion **70 % of** UV grade Zinc Oxide with broad-spectrum sun protection benefit, excellent transparency and velvet sensory.

➤ Ideal for premium market.

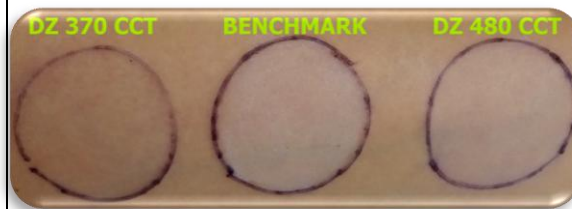
➤ **G-Block DZ 480 CCT:** Fine and stable dispersion of **80 % of** UV grade Zinc Oxide with broad-spectrum sun protection benefit, very good transparency and slick sensory.

➤ Ideal for mass market and synergistic with organic UV filter.

a. SPF 34 (In-vivo, FDA protocol, 2 subjects). CW = 370 nm

b. COLIPA: SPF 32, UVAPF 11.99, CW 370. UVAPF/SPF = 0.374 > 1/3

c. Asia: PA +++



a. SPF 30 (In-vivo, FDA protocol, 2 subjects). CW = 375 nm

b. ISO 2442: SPF 30, UVAPF 12.5, CW 375. UVAPF/SPF = 0.417 > 1/3

c. Asia: PA +++

**Pass FDA broad spectrum Criteria, EU UVA Logo, and Asia PA +++**

Phase	INCI Name, (Trade Name)	Premium Wt %	Mass Wt %	Process:
A	Distilled Water	48.6	50.2	1. Stir Phase A with propeller mixer (500-700 rpm) for 10 mins and homogenize at 4000 rpm for 10 mins at RT until Vivapur COS-5 is fully dissolved, and then heat up to 80C.
	<b>PhytoCare HA CG 1M (Snow Mushroom Extract)</b>	<b>0.12</b>	<b>0.12</b>	
	Microcrystalline Cellulose (and) Cellulose gum (Vivapur COS-5)	1.00	1.00	
	Glycerine	3.00	3.00	
	Phenoxyethanol (and) Ethylhexyl Glycerin (Euxyl PE 9010)	0.70	0.70	2. Mix and heat Phase B at 300-500 rpm until mixture reaches 80C.
B	<b>G-Block DZ 370 CCT</b>	<b>28.6</b>	-	3. Slowly add Phase B into Phase A with propeller mixer for 5 mins, and then homogenize 4000-4500 rpm at 75-80 C for 5 minutes. 4. Switch to a propeller mixing while cooling down to RT. Add water that may evaporate during process.
	<b>G-Block DZ 480 CCT</b>	-	<b>27.0</b>	
	Cetearyl Alcohol (and) Coco Glucoside (Montanov 82)	3.00	3.00	
	Cetearyl alcohol (and) cetearyl glucoside (Montanov 68)	1.00	1.00	
	Coco-Glucoside (and) Glyceryl Oleate (Lamsoft PO65)	1.00	1.00	
	Capric/Caprylic Triglyceride	7.00	7.00	
	Ethyl Macadamiate (Floramac 10)	6.00	6.00	
<b>Feature</b>	Viscosity (cP) @ 10 rpm	10,500	9,640	pH 7.3