



Sun Cream W/O CP SPF30 with Creagel® Crystal AF

Water resistant sun cream with Creagel® Crystal AF. Creagel® Crystal AF is thickened oil which upon application forms water resistant film upon application. Biomethics® Emulsifier have good skin compatibility and they do not disrupt skin's barrier as traditional emulsifiers do. Dedraflow® 5 is photostable volatile emollient, ideal to replace Cyclomethicone due to identical properties. Novatext® Mat provides smooth silky texture with mat soft finish. Creanatural® BioCollagen improves the skin moisturisation as it reduces TEWL from the skin. Combination of two Creasperse® UV dispersions give both high SPF and UVA protection without risk of sedimentation. (*Formulation used in water resistance test*)

Ingredients	INCI Name	Qty%	Supplier
Phase A			
Biomethics® CPS W/O	Solanum Tuberosum (Potato) Starch (and) Squalane (and) Butyrospermum Parkii (Shea Butter) (and) Helianthus Annuus (Sunflower) Wax (and) Xanthan Gum (and) Hydrogenated Lecithin (and) Tocopherol (and) * <i>preservative system</i>	4,50	1)
Hectone® DF	Hydrogenated Polyisobutene (and) Distearidimonium Hectorite (and) Propylene Carbonate	12,00	1)
Creabase® MSO	Limnanthes Alba (Meadowfoam) Seed Oil (and) Cera Alba (and) Hydrogenated Meadowfoam Seed Oil	5,00	1)
Creanatural® LAQ	Limnanthes Alba (Meadowfoam) Seed Oil (and) Squalane	3,00	1)
Creagel® Crystal AF	Hydrogenated Polydecene (and) Ethylene/Propylene Copolymer	10,00	1)
Dedraflow® 5	Hydrogenated Polyisobutene	7,00	1)
Phase B			
	Water	q.s.	
	Glycerine	2,00	
	Disodium EDTA	0,05	
	Methylisothiazolinone (and) Chlorphenesin	0,50	
Phase C			
Novatext® Mat	Hydrogenated Polyisobutene (and) Polymethylsilsesquioxane (and) Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer (and) Ethylene/Propylene Copolymer	3,50	1)
Phase D			
Creanatural® BioCollagen	Water (and) Glycerine (and) Butylene Glycol (and) Zea Mays (Corn) Starch (and) Natto Gum (and) <i>preservative system</i> * Hyaluronic Acid	7,50	1)
		0,02	
Phase E			
Creasperse® TR22 AF65	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	15,75	1)
Creasperse® TR35 AF65	Titanium Dioxide (and) Hydrogenated Polydecene (and) Hydroxystearic Acid	9,15	1)

* Preservative systems is tailor made upon customer's request

Procedure:

1. Heat up phase A to temperature of 70-75°C and keep under agitation until homogeneous.
2. Heat up phase B to temperature of 70-75°C and keep under agitation until homogeneous.
3. Homogenize (6000rpm) for 5 minutes. Cool down to temperature below 35°C.
4. Add phase C into the mixture (A+B) and homogenize (6000rpm) for 2-3 minutes.
5. Add phase D into the mixture (A+B+C). Homogenize (6000rpm) for 2-3 minutes.
6. Add phase E into the mixture (A+B+C+E) and homogenize (1000rpm) for 2-3 minutes.

Suppliers:

- 1) CIT SARL

Testing:

SPF in vitro: 108,8

UVA Ratio: 0,75

Star Category: ***

Critical Wavelength: 378 nm

