



PERFORMANCE INSPIRED INGENUITY

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Pleasing Protection

Sunscreen

Description:

Pleasing Protection sunscreen is a high SPF (50+ in-vitro) formulation that exceptional protection and offers a pleasing sensorial courtesy of Siltech specialty ingredients. SilPlex® J2-S is a cationic/anionic complex that results in increased deposition and also provides conditioning for the skin. Silmer® Q25 is a silicone Q resin that promotes film formation and stay-in-place properties. Siltech® CE-2000, a citrate ester, imparts exceptional emolliency and cushion during application. The inclusion of Silwax® J1032 silicone wax in the formulation improves spreadability and also provides a significant measured in-vitro SPF boost. Pleasing Protection offers superior protection and sensorial, translating to consumer bliss!

Ingredients:

Phase	Ingredient (Supplier)	INCI Name	Weight (%)
A	D.I. Water	Water	50.65
	Cosmedia SP (BASF)	Sodium Polyacrylate	1.20
	Glycerin	Glycerin	5.00
	SilPlex J2-S (Siltech)	Quaternium-20	6.00
B	Neo Heliopan OS (Symrise)	Ethylhexyl Salicylate	3.00
	Neo Heliopan 303 (Symrise)	Octocrylene	4.00
	Tinosorb S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.50
	Siltech CE-2000 (Siltech)	Trioctyldodecyl Citrate	7.00
	Silmer Q25 (Siltech)	Trimethylsiloxysilicate	1.00
	Silwax J1032 (Siltech)	C32 Alkyl Dimethicone	2.25
	Neo Heliopan 357(Symrise)	Butyl Methoxydibenzoylmethane	3.00
	Neo Heliopan BB (Symrise)	Benzophenone-3	5.00
Neo Heliopan AV (Symrise)	Ethylhexyl Methoxycinnamate	7.50	
C	Symocide (Symrise)	Phenoxyethanol, Decylene Glycol, 1,2-Hexanediol	0.90
Total			100.00

Procedure:

- 1) Disperse Cosmedia SP into water and glycerin until it is fully hydrated. Add the rest of the Phase A ingredients and heat to 75-80°C.
- 2) Combine all the liquids in Phase B and mix well at 500 rpm while heating to 80-85°C.
- 3) Add Phase B into Phase A at 80°C at 1000 rpm mixing rate and increase the mixing rate during subsequent additions. Maintain mixing rate for 2 minutes when targeting a batch size of 200g.
- 4) Cool down to room temp. Then add Phase C while mixing.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.