



Reference Formula

Sample preparation date: 6/28/23 12:42 PM

Fun 心曬防曬乳 (SPF 286★★★★★) H231215-1

Description: This formula is a high-performance O/W sunscreen.

Use **Lenofier E2** along with **CETYL-STEARYL ALCOHOL (FAL1618) (30/70)** to emulsify a carefully selected combination of sunscreen ingredients, which includes **Parsol® ZX**, **Parsol® EHT**, and **PARSOL® Shield**. Additionally, incorporating **UCON 75-H-450** and **XIAMETER™ PMX-200 Silicone Fluid, 2cSt** enhances the overall sensory experience of the product.

FORMULA

Phase	Ingredient (Trade Name)	Ingredient (INCI Name)	% By Weight	Function
W1	D.I Water	D.I Water	Up to 100%	Solvents
	TILAMAR® PDO with NØØVISTA™ 2	Propanediol	1.00%	Moisturizer
	Cellosize™ PCG-10 1	Hydroxyethyl Cellulose	0.30%	Thickener
	EDTA-2NA	Disodium EDTA	0.05%	Chelating Agent
O1	Parsol® ZX 2	Zinc Oxide, Triethoxycaprylylsilane	10.00%	Sunscreen Agent
	Parsol® EHT 2	Ethylhexyl Triazone	5.00%	Sunscreen Agent
	ERCAREL AB 14	C 12-15 alkyl benzoate	10.00%	Sunscreen Solvent
	PARSOL® Shield 2	Bis-Ethylhexyloxyphenol	3.00%	Sunscreen Agent
	Lenofier E2 5	Methoxyphenyl Triazine		
		Glyceryl Stearate, Sorbitan Monoleate, Stearic Acid, Fatty Alcohol Polyoxyethylene (25) Ether	3.50%	Emulsifier
		CETYL-STEARYL ALCOHOL (FAL1618) (30/70) 14	Cetearyl Alcohol	1.00%
A	ERCAREL TCC V 14	Caprylic/Capric Triglyceride	3.00%	Emollient
	UCON 75-H-450 1	PEG/PPG-17/6 Copolymer	2.00%	Skin feel modifiers
	XIAMETER™ PMX-200 Silicone Fluid, 2cSt 1	Dimethicone	Q.S.	Skin feel modifiers
	Sharomix AM 20 25	Phenoxyethanol, Ethylexyglycerin, Didecylidimonium Chloride	1.00%	Preservative

Suppliers: 1. Dow Chemical; 2. DSM; 5. Leasun; 14. ErcaWilmar; 25. SHARON

Recommendations contained, herein this Reference Formula, are advisory only.

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PROCEDURE

1. Prepare W1 phase and O1 phase separately and heat them to 80-85°C.
2. Pour the W1 phase into the O1 phase and homogenize using a high-speed homogenizer.
3. After cooling to below 40°C, add A phase one by one and homogenize.
4. Adding citric acid if necessary when pH value is lower than 7.

SPECIFICATION

APPEARANCE	: Creamy	
VISCOSITY	: approx. 1560 ± 10%	(RVDV-E, RV4, 60rpm, 3 min, 25°C)
SPF	: 286	
Boots Star	: 5	

The information given in this publication is based on our current knowledge and experience and maybe used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations and observe all third party rights.

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