

ZeoSAES™ UV Booster

5X6015



in-cosmetics® korea
2024 INNOVATION ZONE BEST INGREDIENT
Functional Ingredient
GOLD

SAES Chemicals

INCI
Zeolite

Definition
Engineered Zeolite

Provides an excellent **UV boosting effect** scattering UVA&UVB rays and allows to reduce UV organic filter quantity in formulation. It also combines **sensorial application** on skin thanks to texturizing properties.



SOLAR PROTECTION



MAKE UP



SKINCARE



3%

+40%
SPF Boosting

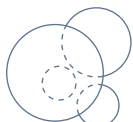
+38%
UVA-PF Boosting

UV booster values based on Cream formulation SPF30

Benefits



DRY TOUCH



TRANSPARENT EFFECT

8
Chemical Filters
Compatibility and
Efficacy Tested

US, EU, KR, BR
Cosmetic Regulation OK

3%
Ingredient in
Formulation

SPF tested
in vitro
ISO/DIS 23675

SPF tested
in vivo
ISO 24444:2019

UVA-PF tested
in vitro
ISO 24443:2021

Cosmetics — Sun protection test Methods

Characteristics

Fine powder **Non-Nano**
according to recommendation
2011/696/EU

X90 volume distribution: **<30 µm**

Product Features

- **Water and oil dispersible**
- **Highly compatible** with all SPF range
- **Improved overall stability**
- **Compatible with WR solar care formulation**
- **Strong rheology modifier**, increasing body and improving density
- **Increased sebum control**
- **Increased oil and sweat absorption**
- **Compatible with chemical filters**

Certifications



Cruelty-free suitable

Halal certifiable

Heavy metal tested

Ni, Cr < 10 ppm, other metals < 1 ppm

OK Sephora list

OK Credo list

ISO 14001

ISO 9001

Registrations

OK EU / US / China / Japan /
South Korea / Mercosur
Cosmetic regulation

Patent

Covered by patent applications

Protective Drop Sun Serum SPF15

This formulation is only an example application
Stability fulfills: 3 months - 45°C

Pump your skin with Protective Drop Sun Serum. ZeoSAES™ UV Booster 5X6015 is compatible with EU chemicals UV filters and compliant with UVA. Including a 3% into the formulation it boosts up to +35% SPF. Tested in vivo according to ISO 24444:2019. It also helps the formulation to be drier, silkier and softer, enhancing the final sensorial touch.



Phase	Ingredients	INCI	% w/w
A.	Demineralized Water	Aqua	67,83
	Butylene Glycol	Butylene Glycol	2,00
	Vegetable glycerol	Glycerin	1,00
	Chelante GLDA	Aqua, Tetrasodium Glutamate Diacetate	0,10
	Nipest 40 HC	Carbomer	0,10
B.	TEGO Care PBS6 MB	Polyglyceryl-6 Stearate, Polyglyceryl-6 Behenate	3,00
	Olifeel Pearls	C10-18 Triglycerides	1,00
	Beausens Air	Ethylhexyl Pelargonate	6,00
	EMotion Light	Tripelargonin	2,00
	Olifeel Skin	Triolein, Glyceryl Dioleate	1,00
	Aperoxide TLA	Lecithin, Tocopherol, Ascorbyl palmitate, Citric acid	0,10
	MFSorb 512 (HOOB)	Diethylamine Hydroxybenzoyl Hexyl Benzoate	3,00
	MFSorb 503 (EH5)	Ethylhexyl Salicylate	2,00
	MFSorb 509 (BEMT)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	1,50
	MFSorb 507 (EHT)	Ethylhexyl Triazone	1,00
C.	Solagum AX	Acacia Senegal Gum, Xanthan Gum	0,30
D.	Demineralized Water	Aqua	0,30
	MFSorb 510 (PBSA)	Phenylbenzimidazole Sulfonic Acid	1,00
E.	Sodium hydrate 30%	Sodium Hydroxyde, Aqua	0,57
	BiosControl Sinergy ICE	Caprylyl Glycol, Ethylhexylglycerin, O-Cymen-5-01	1,00
F.	ZeoSAES™ UV Booster 5X6015	Zeolite	3,00
G.	Sodium hydrate 30%	Sodium Hydroxyde, Aqua	
TOTAL			100,00

Procedure

1. Mix Phase A and heat to 75-80°C.
2. Mix Phase B and heat to 75-80°C until complete dissolution of UV Filters.
3. Add Phase B to Phase A under mixing and homogenize.
4. Add Phase C to Phase A+B and homogenize.
5. Start cooling down to 50-55°C (under mixing).
6. Pre-mix Phase D until completely dissolved; check pH is 7,10 - 7,50.
8. Add Phase E and homogenize.
9. Add Phase F and homogenize.
10. Cool down to <35°C and add Phase G under mixing and check final pH.

Formulation suggestions

- It is recommended to precondition the powder to room temperature (20-25°C) and humidity value (30-50%) before its utilization.
- Recommended use level: 1-5%wt.
- Contributes to basic pH in water dispersions. After powder's integration with the formula, it is important to adjust pH to the desired value.
- Well dispersible in oils, waxes, silicones and water.

Methods of use:

- Compatible with low-to-high shear mixing and processing methods (mixer, turrax, high speed disperser, etc.).
- Compatible with in process and post process addition (compatibilization) with a cosmetic formula. Can be integrated both with water-phase or oil-phase of a cosmetic formula.

Stability

Temperature: stable at rt-to-high temperature processes

pH: stable within pH 5-9

Light: photostable