



>> ECOSUSTAINABLE SUNSCREEN BOOSTER & ANTIAGEING

FUNCTIONALIZED HYDROXYAPATITE PATENTED FOR SUN CARE APPLICATIONS

Apalight is a mineral specialty obtained through an exclusive production method, internationally **patented for applications in sunscreens as mineral SPF booster.**

Its physiological and biomimetic behavior enables to formulate **safe sunscreens ideal for baby care**, allowing to reduce the concentration of use of filters with critical safety profile, along with unique characteristics in terms of **compatibility with sea waters and no impact on the marine eco-system**. Apalight impacts the industry with unique features, such as the **improvement of sunscreens texture** in terms of **application flow**, **no blue whitening effect**, while keeping efficacy **performances comparable to mineral filters like TiO₂ and ZnO**.

Apalight also promotes anti-ageing effects, such as *anti-wrinkle, elasticity enhancing properties and soft-focus effect*, given by HAP **dynamic behavior on the skin** (time prolonged dissolution).

>> Positioning

FUNCTIONAL AND TECHNOLOGY HIGHLIGHTS

- Internationally patented biomimetic hydroxyapatite for suncare applications
- Mineral SPF booster working as a physical inorganic filter
- SPF protection comparable to TiO_2 and ZnO
- Ideal for natural mineral sunscreens (awarded in sunscreen formula of the year- inCosmetics)

ICEA

COSMOS APPROVED VERSION

- No blue whitening effect
- Light texture, no mineral touch perception, photo-stable after irradiation
- Environment friendly: HAP is part of marine ecosystem
- Anti-wrinkle (-10%) and elasticity enhancing (+10.3%) actions in vivo proven
- Immediate soft focus effect







MADE IN ITALY

www.kalichem.it Tel. + 39 030 2693532 kalichem@kalichem.it

SUNSCREENS



$SPF \text{ BOOSTING COMPARABLE TO } TIO_2$

* 45 40	Ethylhexyl methoxycinnamate @10.0 % Butyl methoxydibenzoylmethane @2.0 % Ethylhexyl salicylate @4.0 % Diethyloaminohydroxybenzoyl hexyl benzoate @7.0 % Ethylhexyl triazone @1.5 %			SPF value	
40 35					
30					
25					
20					
15		*		*	
10					
5					
0					
	Organ	SPF 30+ TiO2 ic filters SPF	Apalight/TiO2 (@4%) re	SPF 30+ Apalight	IN VIVO

A. boosts organic filters SPF comparably to TiO₂. Similar behavior takes place if it is combined to physical sunscreens in alternative to ZnO.

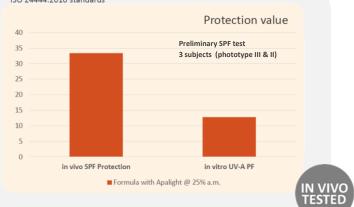
NO BLUE WHITENING, NO MINERAL TOUCH



A. uniqueness relies on its lack of blue-whitening effect and its light flow, leading to an unmatched applicative pleasantness.

INTRINSIC SPF AND UV-A PROTECTION FACTOR

ISO 24444:2010 standards



Apalight promotes both SPF and UV-A protection factor. The 1/3 UVA/UVB ratio with the above mineral configuration is respected.

COMPATIBILITY WITH SEA WATERS



Apalight HAP is made of a biomimetic mineral comparable to the HAP found in sea eco-system, with no impact on coral reefs and fish.

>> TECHNICAL OVERVIEW

MADE IN ITALY

PH OF USE	% OF USE	APPLICATIONS	SOURCING	FORMULATION TIPS
5.5 ÷ 8.0	2.0 ÷ 20.0 (a.m.)	All products in cosmetics and make up areas, in emulsion, stick and powdery form	Mineral	Predisperse in water by slow addition under stirring and add the dispersion in cold process, or add to the oily phase after solids fusion by slow addition under stirring

[INCI NAME* : hydroxyapatite]

(* powder version)



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