Technical Specification.







Product: EnhanceU
Tipe: T
Family: ADP Cosmetics

Producer:

Advanced Dispersed Particles S.L.

C/Oro 45 nave 14 P.I Sur. 28770

Colmenar Viejo Madrid (Spain).

ENHANCEU-T, A NON-NANOMETRIC INORGANIC SUNSCREEN.



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Product:	EnhanceU
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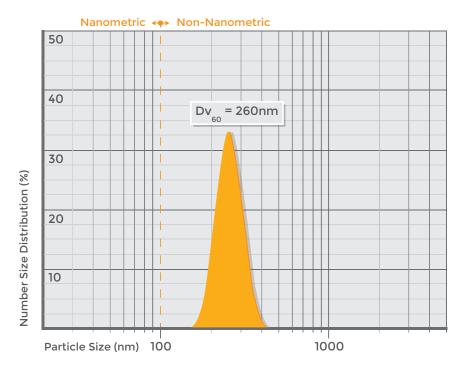
Producer: Advanced Dispersed Particles S.L. C/Oro 45 nave 14 P.I Sur. 28770 Colmenar Viejo Madrid (Spain).

# **ENHANCEU-T, A NON-NANOMETRIC INORGANIC SUNSCREEN**

ADParticles has developed EnhanceU-T, an inorganic composite with properties suitable for use as UV filter in cosmetic. The particle-size distribution of EnhanceU-T is not in the nanometer range (1-100 nm) and it provides a high level of UVA and UVB protection.

EnhanceU-T consists of a composite of TiO<sub>2</sub> and SiO<sub>2</sub>, developed by ADParticles patented technology. providing broadband UV protection and offering safety and efficacy to the final formula.

The particle size distribution was determined by Nanoparticle Tracking Analysis (NTA) a characterization technique that utilizes the properties of both light scattering and Brownian motion in order to obtain the particle number size distribution of samples.





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## **COMPOSITION**



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## **COMPOSITION**

#### INCI:

- Titanium Dioxide
- Silica

TiO <sub>2</sub> Content	94-96%
SiO <sub>2</sub> Content	4-6%
As % (m)	< 0.0001
Sb % (m)	< 0.0002
Pb % (m)	< 0.001
Hg % (m)	< 0.0001



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# UV ABSORPTION SPECTRUM. PHOTOSTABILITY



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# **UV ABSORPTION SPECTRUM. PHOTOSTABILITY**

**SPF**: 7.2

**UVA PF:** 4,3

Ratio UVAPF/SPF: 0,6 Ratio UVA/UVB: 0,7

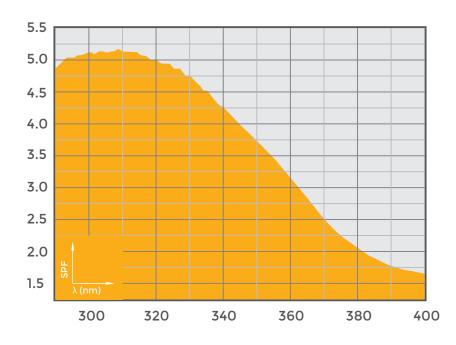
Critical wavelength: 383 nm

The analysis was performed with a Sun simulator Solar Oriel 300W with a Xenon lamp (Newport, Cleveland, USA).

The filter concentration in the final formula was 5% (w/w)

Photostability test was performed to evaluate the SPF both before and after irradiation of the sample with UV light, after 11 irradiation sessions of 1 minute.

The photostability value is higher than 80%, the refore EnhanceU-T is considered to be photostable (Garolietal. J. Dermatol. Sci. 52 (3), 193-204).





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