

TECHNICAL DATA SHEET

General Description

Commercial name:	EnhanceU-S
Producer:	Advanced Dispersed Particles S.L
Chemical formula:	ZnO-TiO ₂ -SiO ₂ (mixture)
INCI:	Zinc Oxide, Titanium Dioxide, Silica
CAS No.:	1314-13-2, 13463-67-7, 7631-86-9
Colour and Form:	White Powder
Type of product:	Mineral UV filter for cosmetics
Other properties:	-

Technical Data – Typical Values

Zinc oxide	65-80wt. % (X-Ray Fluorescence Analysis)
Titanium dioxide	16-23wt. % (X-Ray Fluorescence Analysis)
Silicon dioxide	2-7wt. % (X-Ray Fluorescence Analysis)

Metals	Units	Max.	Method
As (Arsenic)	mg/Kg	3	ICP-MS or AA
Cd (Cadmium)	mg/Kg	10	ICP-MS or AA
Hg (Mercury)	mg/Kg	1	ICP-MS or AA
Pb (Lead)	mg/Kg	20	ICP-MS or AA
Sb (Antimonium)	mg/Kg	20	ICP-MS or AA
Loss on drying	%	3	Gravimetry
Loss on ignition	%	10	Gravimetry
Solubility in water	%	5	Gravimetry
Solubility in HCl	%	80	Gravimetry

This product is in compliance with Regulation (CE) 1223/2009 on cosmetic products. Traces metals are in agreement with FDA 21.CFR.73.1991 y FDA 21.CFR.73.2991. Internal specifications are set for loss of water, loss in ignition, and solubility due to the nature of the product (the product is not a pure substance but a mixture).

This product is commercialized based on CSIC License. The manufacturing process is based on a patented technology which is exclusively licensed to Advanced Dispersed Particles, S.L. (ADParticles).