

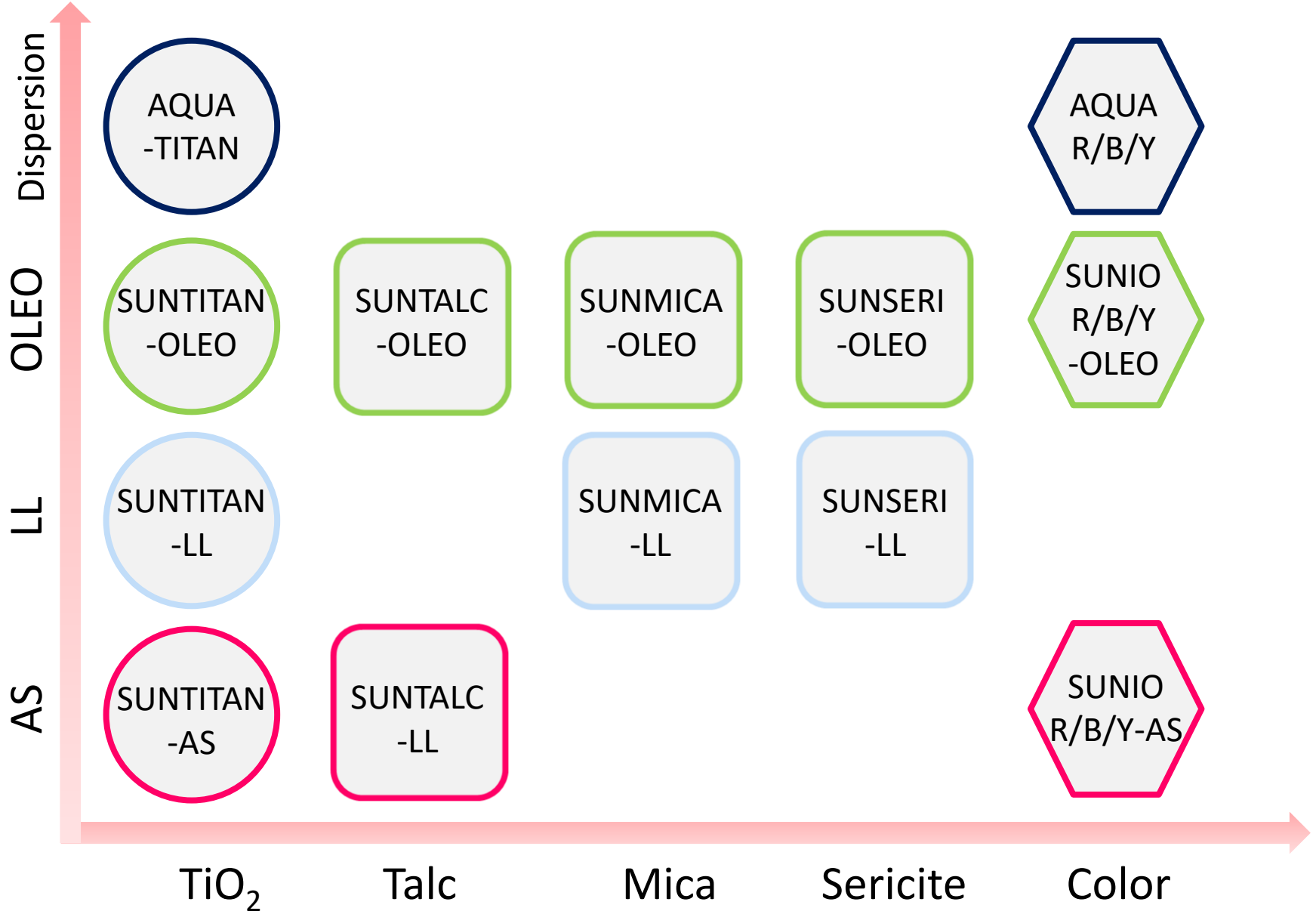
Pigment

SUNJIN BEAUTY SCIENCE

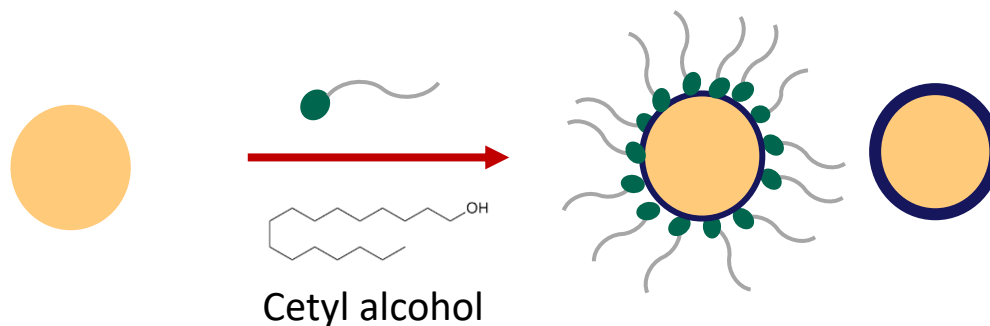
MAR. 2020

Ver 1.0

Pigment Overview

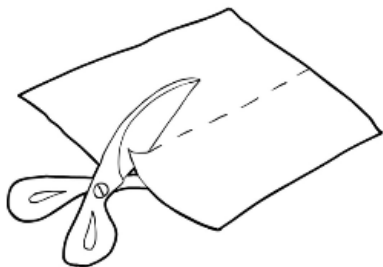
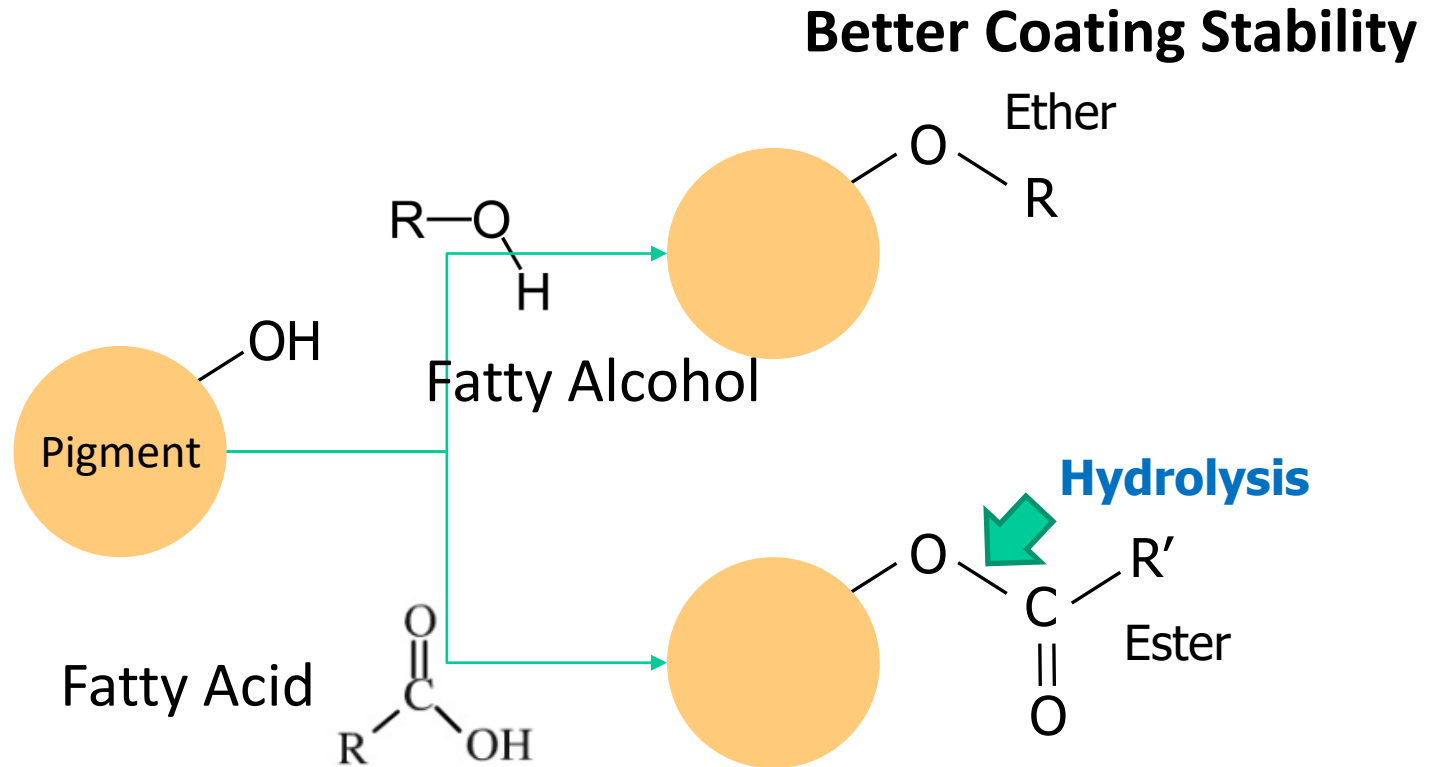


OLEO Treated Pigments



Grade	Descriptions	Avg. Particle size(μm)
SUNTITAN-OLEO	Cetyl alcohol coated TiO_2	0.4 max
SUNTALC-OLEO	Cetyl alcohol coated Talc	4~8
SUNMICA-OLEO	Cetyl alcohol coated Mica	15~20
SUNSERI-OLEO	Cetyl alcohol coated Sericite	15~20
SUNIOR-OLEO	Cetyl alcohol coated Red iron oxide	1.0 max
SUNIOB-OLEO	Cetyl alcohol coated Black iron oxide	2.0 max
SUNIOY-OLEO	Cetyl alcohol coated Yellow iron oxide	1.0 max

Why Cetyl Alcohol?



Conventionally the most common natural coating material has been fatty acid but ester functional group is susceptible to hydrolysis

SUJIN is the first company introducing fatty alcohol coating to Inorganic UV filters

Lauroyl Lysine Treated Pigments

COSMOS certified



Plate

Grade	Descriptions	Avg. Particle size(μm)
SUNTALC-LL	LL coated Talc	4-8
SUNSERI-LL	LL coated Sericite	15-20
SUNMICA-LL	LL coated Mica	15-20

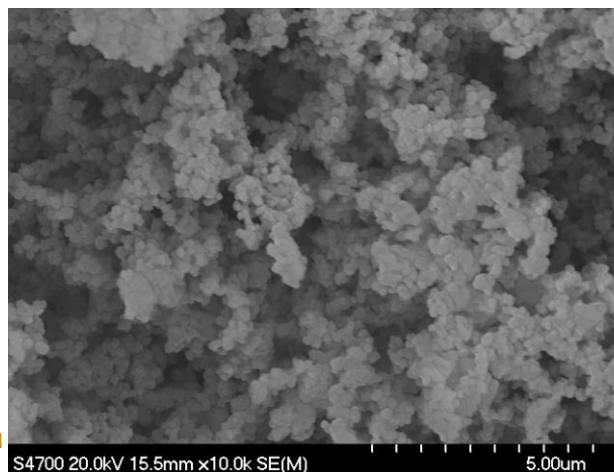
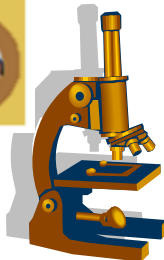
Color Pigment

Grade	Descriptions	Avg. Particle size(μm)
SUNTITAN-LL	LL coated TiO_2	0.5~2

SUNTITAN-LL

TiO_2	95%
LL	5%
<u>Particle Size</u>	
300nm	

300nm



Alkyl Silane Treated Pigments

Plate

Grade	Descriptions	Avg. Particle size(μm)
SUNTALC-AS	AS coated Talc	4~8

Color Pigment

Grade	Descriptions	Avg. Particle size(μm)
SUNIOB-AS	AS coated Iron Oxide Black	2.0 max
SUNIOR-AS	AS coated Iron Oxide Red	1.0 max
SUNIOY-AS	AS coated Iron Oxide Yellow	1.0 max
SUNTITAN-AS	AS coated TiO_2	0.4 max

AQUA-TITAN

Grade	INCI NAME
AQUA- TITAN	Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Triethoxy caprylsilane & 1,2-Hexanediol

TiO₂ **70%** in **water dispersion**

Hydrophobic TiO₂ used for **even spread** & **tone-up** effect



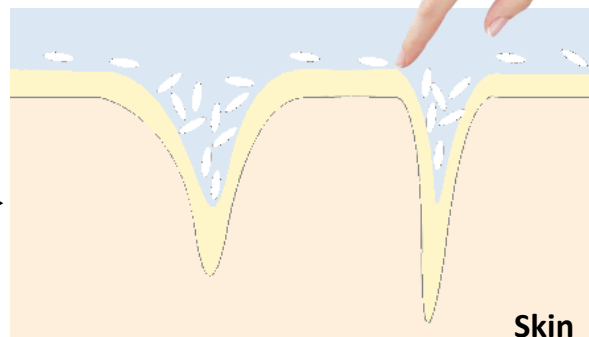
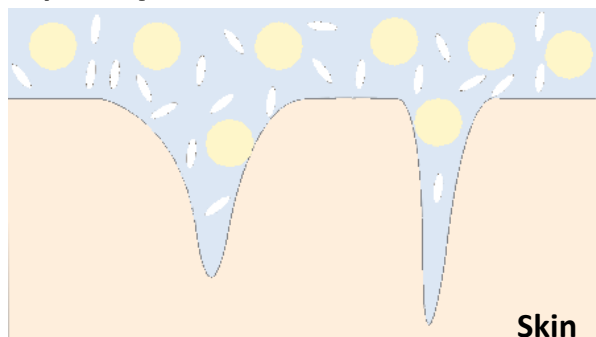
Even spread



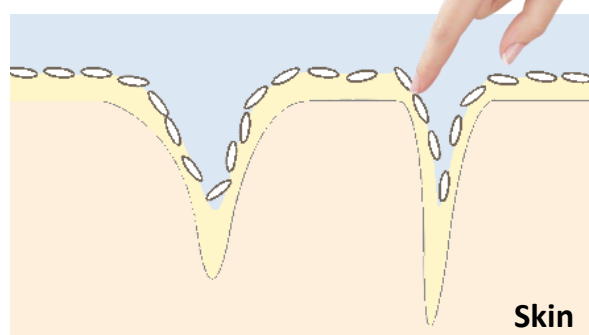
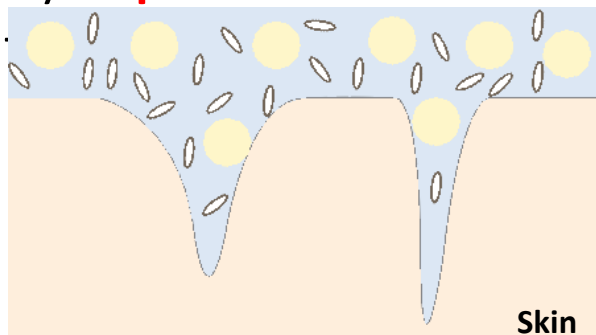
Tone-up

Why?

Hydrophilic surface treated TiO₂



Hydrophobic surface treated



- Water Phase
- Oil Phase
- Hydrophobic Surface treated TiO₂
- Hydrophilic Surface treated TiO₂

AQUA-BB Series

Product Name	INCI NAME
AQUA- BB	Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Yellow Iron Oxide & Red Iron Oxide & Black Iron Oxide & Triethoxycaprylylsilane & 1,2-Hexanediol
AQUA-TITAN	Titanium Dioxide & Silica & Alumina & water & Polysorbate 60 & Oleth-10 & Triethoxycaprylylsilane & 1,2-Hexanediol
AQUA-RED	Red Iron Oxide & water & Polysorbate 60 & Oleth-10 & Triethoxycaprylylsilane & 1,2-Hexanediol
AQUA-YELLOW	YELLOW Iron Oxide & water & Polysorbate 60 & Oleth-10 & Triethoxycaprylylsilane & 1,2-Hexanediol
AQUA-BLACK	BLACK Iron Oxide & water & Polysorbate 60 & Oleth-10 & Triethoxycaprylylsilane & 1,2-Hexanediol
AQUA-MILKDROP	Titanium Dioxide & Silica & Alumina & Butylene Glycol & water & Poly sorbate 60 & Oleth-10 & Dimethicone & 1,2-Hexanediol

