

SUNSIL Tin50

Something for
premium Sun Care

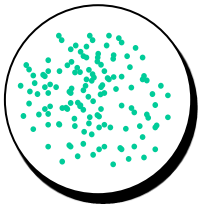
Non Nano TiO₂ for
Ultra Light Texture



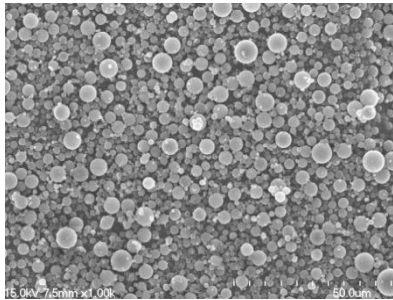
SUNSIL Tⁱⁿ50, TiO₂ Encapsulated Silica Bead

SPF Booster for Premium Sun Care

5um Silica Bead
With TiO₂



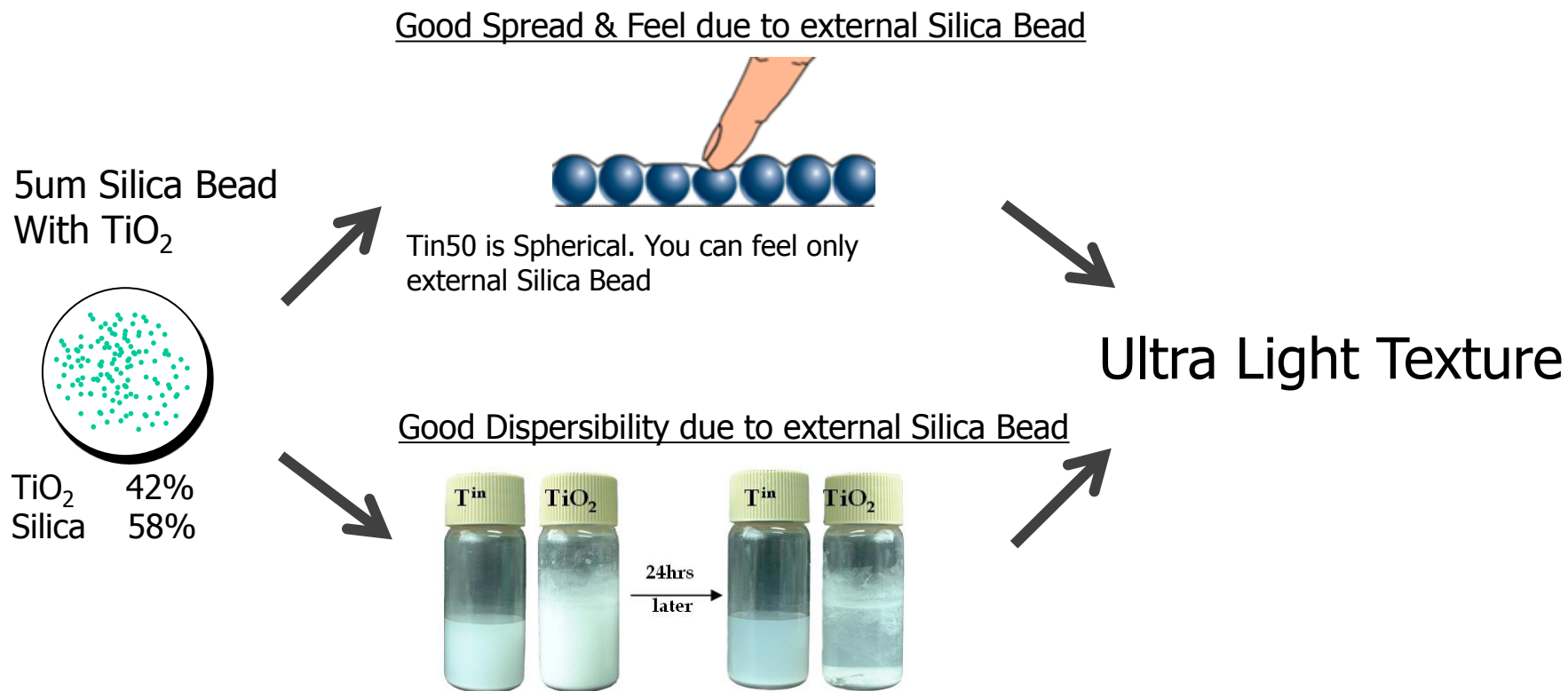
TiO₂ 42%
Silica 58%



Benefits

1. Ultra Light Texture
2. Ultimate Transparency
3. Non Nano & ECOCERT
4. Good SPF Boosting
5. Thickener Compatibility

1. Ultra Light Texture

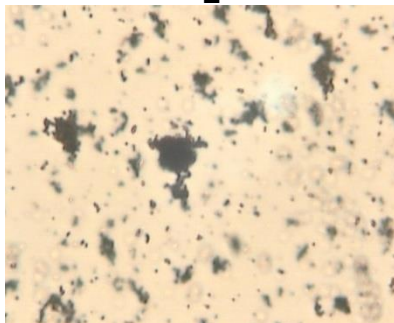


- As the surface of Tin50 is silica, Tin50 exhibits the excellent dispersion properties of silica in both oil and water media.
- Cosmetic formulation process becomes much easier and formulation stability is more reliable as compared to the use of common nano-sized TiO_2 .

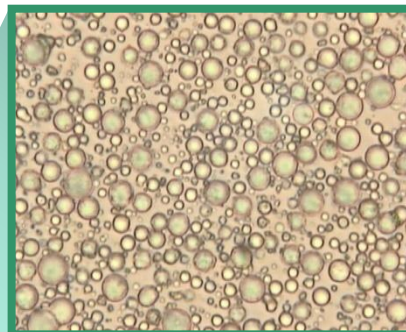
2. Ultimate Transparency

NANO TiO₂

Nano TiO₂ looks dark under microscope as light beneath blocked by opaque TiO₂



SUNSIL Tin50

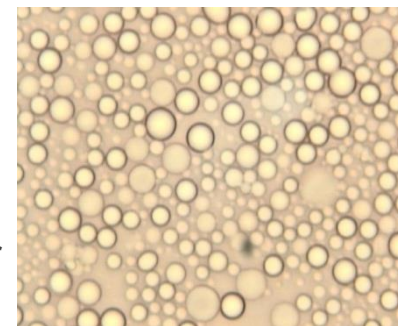


SUNSIL Tin50 is almost as Transparent as Silica Bead



Transparency

Silica Bead: SUNSIL 130



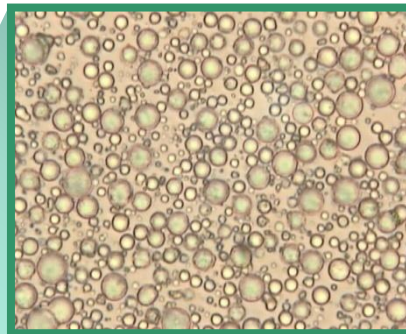
Silica Bead looks transparent.

3. Non Nano & ECOCERT

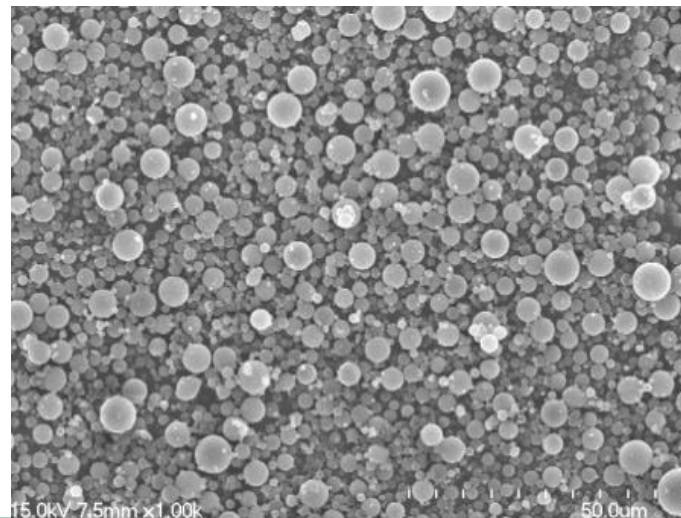
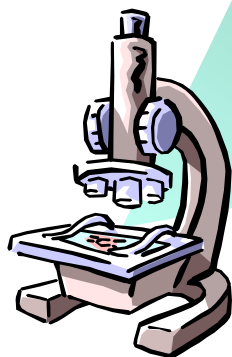
ECOCERT approved SUNSIL Tⁿ50 as “mineral and natural origin” as there is no nano particles less than 100nm in SUNSIL Tⁿ50



SUNSIL Tⁿ50



There is no nano particle visible

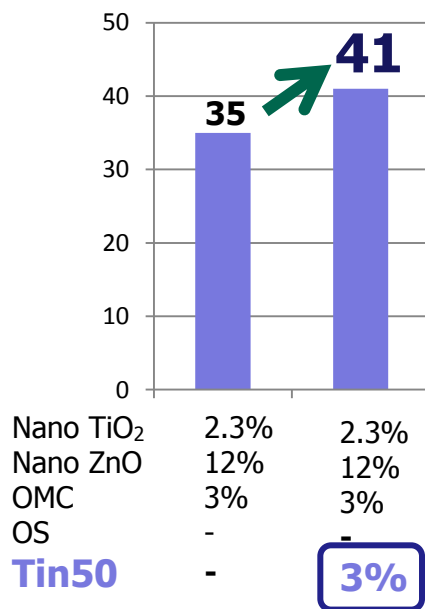


Nano technology is applied to SUNSIL Tⁿ50 but the size of SUNSIL Tⁿ50 is micron-sized and visible enough to be seen under normal optical microscope

4. Good SPF Boosting

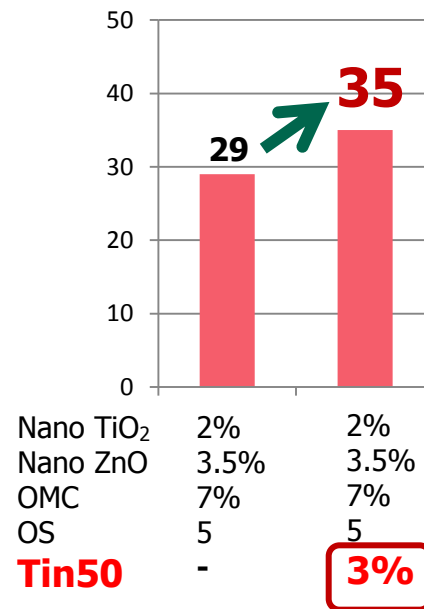
The real beauty of Tin50 is that it boosts SPF of your formula while not hurting Light Feel and Transparency

O/W Sun Cream



3% of Tin50 increased SPF from 35 to 41

W/O Sun Cream



3% of Tin50 increased SPF from 29 to 35



5. Good compatibility with common thickeners

Tested TiO₂

#1:
Company "T"
Product "WP"
TiO₂, Hydrated Silica

#2
Company "T"
Product "AQ"
TiO₂, Hydrated Silica,
Aluminum Hydroxide,
Alginic acid

#3
Company: SUNJIN
Product: SUNSIL TIN50
TiO₂, Silica

#4
Company: SUNJIN
Product: TX-80AQ
TiO₂, Silica

#1	#2	SUNSIL Tin50 #3	#4 TX-80AQ	<u>Tested Thickeners</u>
				Bentone EW (1.0%) Bentonite
				Sepiplus 400 (1.0%) Polyacrylamide/ C13-14 Isoparaffin/ Laureth-7
				Aristoflex AVC (0.4%) Ammonium Acryloyldimethyl taurate/VP Copolymer
				Carbopol 940 (0.2%) Carbomer