SOLESHERE™ microspherical silica are natural-derived minerals and can provide a soft focus (blurring) effect to oil-in-water, water-in-oil, and anhydrous skincare and cosmetic formulations.

Addressing Consumer Trends

Microplastics are commonly used to produce the soft focus effect. SOLESHERE silica can provide a range of soft focus effect and are great alternatives for:

- Microplastics
- Talc
- Silicones

In addition to providing soft focus, the added benefits of SOLESHERE:

- Provide a dry powdery texture
- Improve spreadability
- Enhance aesthetics, feel and texture

The SOLESHERE portfolio offers a wide range of spherical particles ranging in particle size and porosity. The combination of haze and transmittance provide the total blurring/soft focus effect.

Several factors, such as chemical composition, size, shape, and porosity of a particle, play a crucial role in determining its capacity to create a soft focus effect. The greater the extent of light scattering, the more pronounced the diffused transmittance component becomes, resulting in a more effective soft focus effect. Furthermore, achieving a high total transmittance ensures a more natural appearance.

Soft Focus Effect with Increasing Particle Size

![Image of particle size comparison]

Soft Focus Effect with Increasing Particle Porosity

![Image of particle porosity comparison]

- The scattering of light caused by a particle’s porosity provides a soft focus effect.
- This property effectively hides wrinkles, producing an antiaging effect.
Higher haze leads to higher soft focus and a higher effect of hiding wrinkles and skin imperfections. High light transmittance and high haze causes the most effective wrinkle-concealing effect.

SOLESHERE H-121 and H-53 offer the best combination of Haze and Total Transmission.

Comparison of SOLESHERE vs Microplastics and Silicone

Coating film preparation method: Each powder and KF-79121 (trimethylsiloxysilicate, Cyclopentasiloxane) were dispersed in a ratio of 1:9, applied to an OHP film, applied at 500 rpm and 90 sec using a spin coater, and dried at 50°C for 30 min.

SOLESHERE silica provide a wide range of soft focus effect.

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