QSIL

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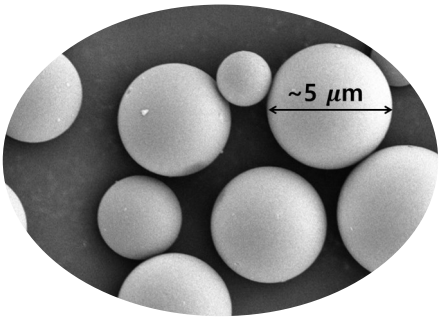
High-Purity Silica Microsphere

A Solution to Microplastic Regulation Challenges

QSIL is an amorphous, high-purity (over 99.9%) silica microsphere with a perfectly smooth, non-porous surface, extremely low surface SiOH content, and low water and oil absorption. It offers an exceptional sensory experience and creates a soft-focus effect on the skin, making it highly attractive alternative to microplastic.



Exceptional sensory

A perfect spherical structure, scratch-free and non-porous surface, and appropriate particle size distribution provide an exceptional sensory experience.

Microplastic alternative

Low oil and water absorption prevents the sensation of dryness, making it an ideal alternative to microplastics.

Expected lower toxicity

The high purity of over 99.9% minimizes the content of unknown impurities, and its surface SiOH content is extremely low, which is considered one of the causes of silica toxicity, regardless of the type of silica. The production process inherently prevents the formation of nanoparticles, and all these factors lead to expectations of lower toxicity compared to currently available silica products.

Unique composition

The ring structure of SiO2 in QSIL differs from that of fumed silica and precipitated silica. QSIL also has internal voids, which contribute to its unique sensory experience and compressibility.

Soft-focus effect

The iridescent effect created when QSIL is applied to smooth surfaces like metal results in a soft-focus effect when applied to the skin.

Product name	QSIL-xP[1]	QSIL-xM[2]	QSIL-xPO	QSIL-xMO
INCI Name	Silica	Silica	Silica/OTES	Silica/OTES
x	3, 5	1*, 3, 5	3, 5	1*, 3, 5
Oil & Water Absorption	<30%	<30%	<30%	<30%
Hydrophilicity	hydrophilic	hydrophilic	customizable	customizable

x=median diameter; [1], polydisperse; [2], monodisperse;*,available upon request only