

SPHERILEX® 10 PC

An essential ingredient for versatile applications in personal care



“No matter what time of the day, Evonik’s SPHERILEX® makes you feel comfortable in your skin!”

Evonik’s silica, to formulate products up to the current trends and customers’ demand.

Silica is a well-known ingredient in the field of personal care for decades. SPHERILEX® 10 PC, or Hydrated Silica, is produced in a novel, precise and patented precipitation process that leads to spherical and smooth particles with a uniform particle size, a controlled microbiology, and a high degree of purity.

The spherical hydrated silica’s unique properties mean that it can be used in a wide range of personal care applications, from hair care products, such as styling powders, to emulsions to decorative products. As a functional additive, it improves the look and feel of cosmetic products. It is also an eco-friendly alternative to microplastics in rinse-off and leave-on formulations.

Evonik silica has been extensively studied

Consumers favor natural cosmetic products for their personal and environmental benefits. Spherical hydrated silica is a synthetic amorphous silica that is synthesized from the most abundant and naturally occurring mineral on Earth.

Silica is part of the natural geological cycle. No matter the form, once it is returned into the environment, there is no difference between naturally occurring and synthetic forms of silica.

Synthetic amorphous silica has been extensively studied, is of course REACH registered and defined by ISO 16128-1 as a substance that meets the standards for “derived mineral materials”. Evonik’s spherical hydrated silica has been certified as a natural product by COSMOS and NATRUE. All in all, spherical hydrated silica is a multi-purpose raw material and has vegan and cruelty-free labels. More than that, its low environmental impact means that it delivers on sustainability and allows consumers to live a more sustainable lifestyle.

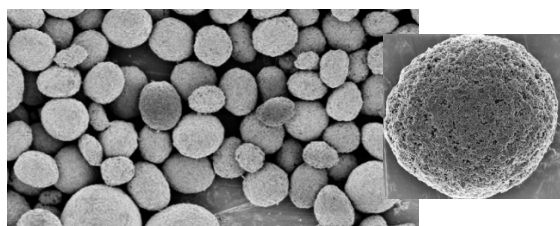
Properties

SPHERILEX® hydrated silica is a spherically shaped white powder.

SPHERILEX® provides many of the critical performance benefits that formulators are looking for. Its unique ability to work with a wide range of ingredients makes this a favored ingredient for sustainable formulations.

The SPHERILEX® 10 PC grade has been designed to take advantage of the spherical shape and narrow particle size distribution in personal care applications.

SPHERILEX® 10 PC – Spherical particles



INCI Name

Hydrated Silica

Appearance

white powder consisting of spherical particles

Particle size d_{50} (Coulter LS)

10 μ m

Dynamic Void Volume (DVV) at 10 MPa

52 cc/100 g

Applications and benefits

SPHERILEX® 10 PC as a sensory additive improves the skin feel significantly and provides a unique, silky-smooth, and non-drying skin feel. As a compacting aid it improves the cake strength and prevents it from flaking. It can absorb excess sebum making skin appear velvety and matte. When used in hair care formulations such as dry shampoos or hair styling formulations, it results in voluminous yet natural-looking hair.

Sensory additive

- Spherical particles for an improved skin feel
- Reduced tackiness

Processing aid

- Pressed powder formulations
- Improves compressibility and cake strength

Mattifying agent

- Leaving the skin soft and velvety matte
- Sebum control

Hair styling aid

- Soft styling effect for natural looking hair

SPHERILEX® 

Product safety

SPHERILEX® 10 PC is not a hazardous material based on the available toxicological data and according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and regional regulations (e.g., EU-CLP Ordinance).

SPHERILEX® 10 PC is neither a colorant, UV absorber nor preservative and is not restricted for the use in cosmetic products according to the EU Cosmetic Regulation (EC 1223/2009).

Recommended usage concentration

1–15% of the different types of applications

Packaging

25 kg bags

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The Silica specialists at Evonik – Inside, to get it right.