SPHERILEX® 10 PC

The versatile and eco-friendly alternative to microplastics in leave-on and color cosmetic applications

SPHERILEX®



"No matter what time of the day, Evonik's SPHERILEX® makes you feel comfortable in your skin!" Using a patented manufacturing process, Evonik now offers a derived mineral ingredient that allows for a spherical particle shape, a controlled pore size, and narrow particle distribution. Since these parameters are now controlled during the precipitation process, the resulting particles are much more consistent than traditional precipitated products. This combination of properties exhibits numerous benefits in cosmetics applications, such as skincare, leave on, sunscreen, decorative cosmetics as well as AP/DEO products.





SPHERILEX® 10 PC – Spherical particles



Application

The benefits of SPHERILEX[®] in skincare are that the spherical shape improves the skin feel significantly. Its light diffusing properties are designed to reduce the appearance of fine lines and wrinkles. As an additional benefit, it has a mattifying effect. Also, SPHERILEX[®] 10 PC helps to reduce and eliminate tackiness in formulations such as sunscreen. The benefits of SPHERILEX[®] in color cosmetics is that the uniform particle size distribution provides a unique, silky-smooth non-drying skin feel. It can be used in a wide range of applications such as powder and lipstick formulations to give a silky matte look.



SPHERILEX® 10 PC – THE ALTERNATIVE TO MICROPLASTICS IN COSMETIC APPLICATIONS PAGE 1/2



Properties

SPHERILEX® products are hydrated silica that are in the form of spherically shaped white powders.

A green revolution is underway that is driving major changes in formulated products throughout the Personal Care industry. SPHERILEX® is just one example of how Evonik is helping Personal Care formulators achieve better results for the end user with nature identical product. 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 go-to ingredient for sustainable formulations. SPHERILEX® does not build viscosity like other types of silica.

The SPHERILEX[®] 10 PC grade has been designed to take advantage of the spherical shape and narrow particle size distribution in personal care applications. The graph shows the lot-to-lot consistency and narrow particle size distribution.

SPHERILEX[®] 10 PC-Your choice for skin care:

SPHERILEX® hydrated silica particles have proven to offer good performance, are available in consistent quality and at advantageous costs and therefore are very attractive alternatives to microplastic. SPHERILEX® 10 PC hydrated silica is a close relative to the abundance of silicates that form the earth's crust. This close relationship is also the reason why this material is listed by NATRUE in Annex 2 (Nature-identical inorganic pigments and minerals approved in natural cosmetics). SPHERILEX® 10 PC has also received COSMOS certification and is listed as a "derived mineral ingredient" according to ISO 16128-1:2016, Annex D. It has been shown in numerous, high volume studies that hydrated silica poses no threat to humans.

Recommended usage concentration

1-10% of the different types of applications

Packaging

25 kg bags



Particle size distribution of different lots of SPHERILEX® 10 PC

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 Labelling of Chemicals (GHS) and regional regulations (e. g., EU-CLP Ordinance). However, as any fine powder it can generate nuisance dust if not handled correctly. 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).



For further information, please turn to our website **www.aerosil.com:** https://www.aerosil.com/product/aerosil/ en/services/downloads/personal-care/ pages/guide-formulations.aspx

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Evonik Corporation Business Line Silica 299 Jefferson Road Parsippany, NJ 07054-0677 USA

Phone +1 800 233-8052 Fax +1 973 929-8502 aski-si-nafta@evonik.com

Evonik Resource Efficiency GmbH Business Line Silica Rodenbacher Chaussee 4 63457 Hanau Germany

Phone +49 6181 59-12532 Fax +49 6181 59-712532 ask-si@evonik.com dental-silica.evonik.com

