

SPHERILEX® 145

Characteristic physico-chemical data*

Properties and test methods	Unit	Value
Median particle size	µm	11
Dynamic void volume (DVV)	cc/100g	55
Sodium sulfate	%	1.1
pH value	5 % in water	7.4
Loss on drying	%	4.5
Fluoride compatibility	%	> 90

*) The given data are typical values. Specifications on request.

Whiter teeth are one of the most sought after attributes for oral care as consumers associate them with attractiveness and success. Whitening toothpastes often use a combination of mechanical and chemical agents to remove and prevent stains. While phosphates are the standard chemical cleaning agents for stain removal and prevention, it can be challenging to meet safe abrasion levels when combining them with mechanical cleaning agents.

Evonik has designed SPHERILEX® 145 to enable high cleaning performance at moderate abrasion levels. The spherical shaped synthetic amorphous silicon dioxide works particularly well in whitening toothpaste formulations containing phosphate chelants, where high abrasion levels are of concern.

Certifications and Classifications

SPHERILEX® 145

CAS-No.	112926-00-8
• Quality excellence achieved through GMPs and ISO:9001 certifications	
• Conformity with COSMOS standards	
• Certified as Kosher, Pareve, Kosher for Passover, and Halal	

Benefits

- Ideal for use in phosphate containing whitening toothpaste formulations at concentration levels of 15-20%
- Provides high cleaning (PCR) with moderate abrasion (RDA)
- Smooth mouthfeel
- Increased production efficiency through rapid dispersion
- Up to three times lower wear on equipment (compared to other high cleaning silica)

Safety and Handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Operations, Product Safety Department, E-MAIL sds-im@evonik.com We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative. Our silica products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

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