

# 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.

## Certifications and Classifications

### SPHERILEX® 145

CAS-No.	112926-00-8
<ul style="list-style-type: none"> <li>• Quality excellence achieved through GMPs and ISO:9001 certifications</li> <li>• Conformity with COSMOS standards</li> <li>• Certified as Kosher, Pareve, Kosher for Passover, and Halal</li> </ul>	

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.

## 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](mailto: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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**Applied Technology  
Evonik Operations GmbH**  
Business Line Silica  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59-3536  
FAX +49 6181 59-4096  
ask-si@evonik.com  
www.silica-specialist.com

**Europe/ Middle-East/  
Africa/ Latin America  
Evonik Operations GmbH**  
Business Line Silica  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59-8118  
FAX +49 6181 59-78118  
ask-si@evonik.com  
www.silica-specialist.com

**North America  
Evonik Corporation**  
Business Line Silica  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA  
PHONE +1 800 233-8052  
FAX +1 973 929-8502  
ask-si@evonik.com  
www.silica-specialist.com

**Asia-Pacific  
Evonik (SEA) Pte. Ltd.**  
Business Line Silica  
3 International Business Park  
#07-18, Nordic European Centre  
Singapore 609927  
PHONE +65 6 809 6877  
FAX +65 6 809 6677  
ask-si-asia@evonik.com  
www.silica-specialist.com