

# SPHERILEX® 148

## Characteristic physico-chemical data\*

Properties and test methods	Unit	Value
Median particle size	µm	3.8
d95	µm	8.1
Dynamic void volume (DVV)	cc/100g	68
Sodium sulfate	%	1.0
pH value	5 % in water	7.3
Loss on drying	%	5.5
Fluoride compatibility	%	>90

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

## Certifications and Classifications

### SPHERILEX® 148

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>	

Tooth sensitivity is a common problem according to the American Dental Association, with almost 50% of the population not being able to fully enjoy eating ice cream or taking a sip of their hot coffee. This can be caused by gum recession as a result of age, erosion caused by acidic beverages, teeth grinding and other medical conditions, leaving the dentin of the tooth exposed. Based on Brännström's Hydrodynamic Theory, without protection, fluids will travel through the tubules of the dentin, stimulating nerves and causing pain.

Evonik has developed SPHERILEX® 148 which is a spherical shaped synthetic amorphous silicon dioxide that can occlude dentin tubules as a significant amount of the particles is smaller than the tubules.

The product should be used at 2-5% concentration in conjunction with standard ZEODENT® products.

## Benefits

- High affinity to block dentin tubules
- High cleaning at low concentration levels
- Reduced wear on enamel surfaces
- 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.

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