

# Silcarbon

## granules for removing silica acid in fresh and sea water

Silicon compounds are an important component of every life but are only required in small quantities. Freshwater and seawater contain a compound called silica. Thus, a high silica content can be classified as a significant disturbing factor in the aquarium water. Natural biotopes that have not yet been affected by humans generally contain very low silica contents. Silica is a collective term for compounds of the general formula  $\text{SiO}_2 \cdot \text{NHO}$ . Silica enters the aquarium directly through the initial water or is released directly into the water by some types of rock. The  $\text{SiO}_2$  removed from the water by biological processes is continuously replaced by dissolving a corresponding amount of  $\text{SiO}_2$  rock.

A concomitant in fresh and marine aquariums of too high silica load is an increased, unwanted growth of algae, especially of so-called "slime algae", which spread like a carpet in the colors brown and blue-green in fresh water and brown and red in the sea water. These are not algae but bacteria. They grow like a carpet over plants, corals etc. Diatoms store  $\text{SiO}_2$  directly in their membrane. A silica content above 0.1 mg / l in fresh and sea water leads to the aforementioned negative effects.

In the case of Silcarbon silicic acid and silicates are bound to the granules by means of a chemical sorption (attachment, binding) and do not go back into solution. With the removal of the granules from the circulation, the bound  $\text{SiO}_2$  is removed. It is ensured that when using Silcarbon no unwanted impurities are released to the water

The use in fresh and sea water is therefore absolutely harmless.

One 400 gramm package of Silcarbon has a binding capacity of approx. 4000 mg  $\text{SiO}_2$ .

### Application:

**Fill Silcarbon into a filter bag. Bypass operation is not required, simply install Silcarbon directly in the filter loop.**

**It is important that a forced flow through the granules takes place, since Silcarbon is only fully effective by direct contact with water.**

**It should not come in contact with textiles because stains are difficult to remove.**

**The granules should be replaced after approx. 3 weeks as the bondable surface becomes inactive due to biological activities.**

**Silcarbon must not be used with simultaneous use of medications as Silcarbon removes medicines.**

**Keep container closed and out of the reach of children.**

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### Hersteller:

Erika Schödder • Schulstraße 17 • 55239 Gau-Odernheim • Telefon 06733-960880 • Telefax 06733-960708  
[www.aquaconnect.com](http://www.aquaconnect.com) • e-mail: [aqua-connect@t-online.de](mailto:aqua-connect@t-online.de) • Ust-IDNr. DE 812 036 366  
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