

Confirmation by TH Nuremberg Georg-Simon-Ohm

The innovative filter system "FIBALON®system"

with FIBALON®3D filter material

by FIBALON GmbH

was successfully tested according to

DIN-EN 16713-1: Swimming pools for Private Use -

**Water Systems - Part 1: Filtration Systems - Requirements and Test
Methods (August 2016 version)**

as well as

**DIN-EN 16713-3: Swimming Pools for Private Use - Water Systems -
Part 3: Treatment Requirements (German version EN 16713-2: 2016).**

Summary of test results:

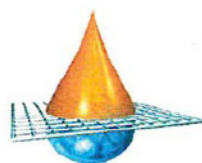
The FIBALON® filter system "FIBALON®system" and the innovative "FIBALON®3D" filter material were successfully tested in accordance with DIN-EN 16713-1 and Part 3 regarding turbidity reduction. The FIBALON® filter material showed very low pressure drops which did not exceed the value of 19 mbar even at high loadings. The **turbidity reduction**, i.e. the turbidity change (in FNU), was **85.6%** after 20 circulation cycles. In the Dp20-test (determination of turbidity reduction), the **reduction of suspended solids** was calculated via the mass balance of the experiment and observed in a **range of 93.7% to 97.6%**. In any respect, by using FIBALON® the measured turbidity reduction was clearly higher than the required reduction of 50% based on Section 4.5 of DIN EN 16713-1.

Name of auditor: TH Nuremberg Georg-Simon-Ohm

Prof. Dr.-Ing. Eberhard Aust

Date of testing: August 9th to 14th 2017

Nuremberg, September 1st, 2017



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Certificate

We hereby confirm the company



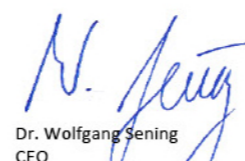
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that heating water, which has been rinsed by their filters, contains no bacterial contaminants and meets the requirements of the German Drinking Water Ordinance.

In the laboratories of senetics Heating water which was purged by Fibalon filter, was tested for microbiological and chemical parameters from May 8th till May 18th. Under the test conditions no bacterial contamination could be detected. The chemical parameters examined corresponded to the requirements of the German Drinking Water Ordinance.

Test parameters:

Test object:	Heating water after rinsing by Fibalon filter
Proof:	Nutrient agar according to DIN EN ISO 6579 and DIN ISO 10273 Chemical detection reaction
Tested parameters:	Total germ count pH value total hardness Copper (Cu) Iron (Fe)


 Dr. Wolfgang Sening
 CEO

