



Bacteriostatic non-woven polypropylene cartridges
 remove mechanical impurities: sand, silt, suspensions



They contain a bacteriostatic factor that protects the contribution against the development of bacterial flora.



Perfectly reduce mechanical contamination, such as: sand, rust, suspensions.



They match the majority of systems and housings available on the market.



High quality.

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Description:

S-PP-BC series - high-quality, bacteriostatic mechanical cartridges made of non-woven polypropylene.

The cartridges contain a special bacteriostatic agent that protects the insert against the development of bacterial flora. Contrary to other similar products available on the market, the bacteriostatic S-PP-BC series cartridges do not contain the addition of silver and other heavy metals harmful to health.

They remove all kinds of mechanical impurities such as: sand, silt, rust and other sediments in the water from 5 µm to 20 µm.

The cartridges are compatible with most housings and systems available on the market. **They have a valid PZH certificate which allows the product to come into contact with drinking water.**

Technical information:

- dimensions: 9 7/8" x 2 1/2"
- filtration: 5 µm, 20 µm.
- efficiency: 20 l / min
- work. temp.: 2° C - 45° C
- pressure drop: 0,2 - 0,4 bar
- longevity*: up to 9 months

* the service life of the cartridges depends on the quality of raw water.

Advantages:

- They show bacteriostatic properties, preventing, the development of bacterial flora,
- They remove mechanical impurities (rust, sand, silt, suspensions),
- Provides excellent filtration with low pressure drop,
- Chemical resistant,
- They fit most of the housings and filter systems available on the market,
- They have the PZH certificate,
- Competitive price,
- Fast order fulfillment,
- High quality.

Test I - Static conditions

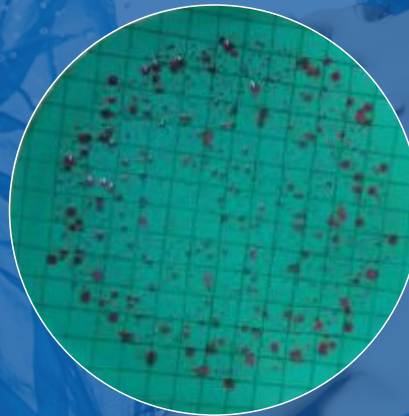
Stage I test - static conditions

4 x 2 cm samples of standard and bacteriostatic polypropylene non-woven cartridges were placed in a sterile vessel with the municipal tap water. The total microbial count of the municipal tap water was determined prior to immersion of the samples.

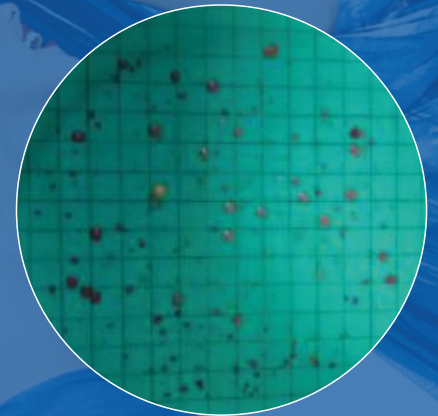
The samples were kept in water for 14 days. The water was then drained and the total number of microorganisms was measured.

Conclusions:

Tests of the samples under static conditions showed a positive effect of the bacteriostatic additive, which lasts up to 12 hours.



standard S-PP cartridge made of non-woven polypropylene



S-PP-BC bacteriostatic cartridge made of non-woven polypropylene

Test II - Dynamic conditions

Stage II test - dynamic conditions

S-PP and S-PP-BC cartridge samples were tested under dynamic conditions. For the experiment, cartridges were installed in a standard 10" housing. The municipal tap water was passed through the filter at a flow rate of 350 l/h (1.6 g/min). Sampling was performed at specified intervals.

Figure 1 shows the results for the total microbial count after 100 liters of water have been passed through.

Conclusions:

A significant reduction in the total number of microorganisms in water (up to 96%) was observed when using S-PP-BC series cartridges under dynamic conditions (compared to raw city water).

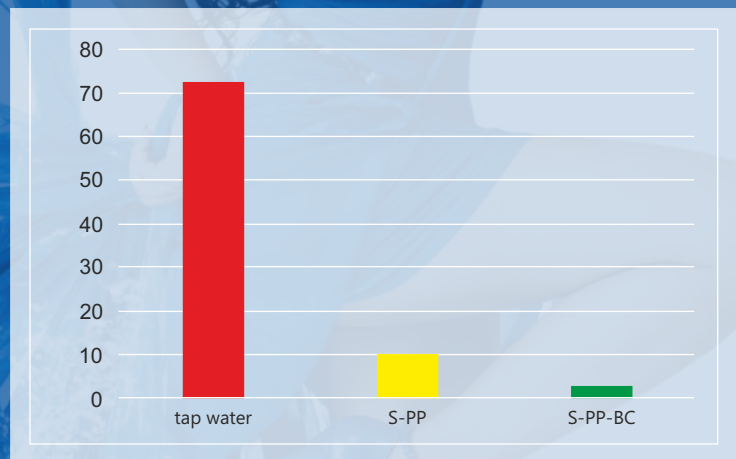


Figure 1. Total Microbial Count Results in dynamic conditions

Technical information:

Index	Dimensions	Micronage	Efficiency	Work. temp.	Longevity*
S-PP5-BC	9 7/8" x 2 1/2"	5	20	2°C - 45°C	3 - 6
S-PP20-BC	9 7/8" x 2 1/2"	20	20	2°C - 45°C	3 - 6

* the service life of the cartridges depends on the quality of raw water.