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bacteriostatic properties

S-PP-BC series

Bacteriostatic cartridges made of non-woven polypropylene

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Product description

S-PP-BC series - high-quality, bacteriostatic mechanical cartridges made of non-woven polypropylene.The cartridges contain a special bacteriostatic factor that protects the cartridges against the development of bacterial flora.

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.

Advantages

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

Reduction of mechanical impurities (sand, silt, suspensions)

They fit most systems and housings available on the market

High quality

European production

Made of the best materials

Low pressure drop

High flow

Product tests

Tested products:
Traditional non-woven polypropylene cartridge - S-PP,
Bacteriostatic non-woven polypropylene cartridge - S-PP-BC.
Size of tested cartridges: 9 7/8 "x 2 1/2"

Test plan:
- evaluation of the effect of a bacteriostatic additive in polypropylene samples on the total number of microorganisms (TMC) under static conditions.
- testing of treated polypropylene non-woven cartridges bacteriostatic additive under dynamic conditions.

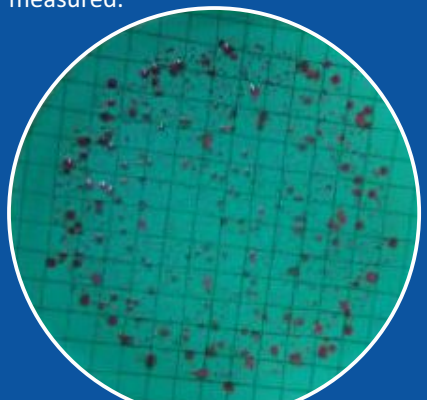
Test I - Static conditions

Stage I test - static conditions

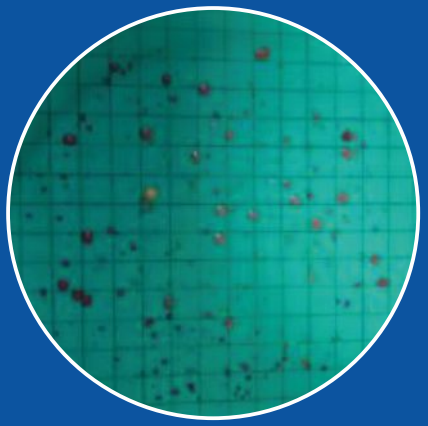
4 x 2 cm samples of standard and bacteriostatic polypropylene non-woven cartridges were placed in a sterile vessel with the municipal tap water.

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.



standard S-PP cartridge made of non-woven polypropylene



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

Conclusions:

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

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).

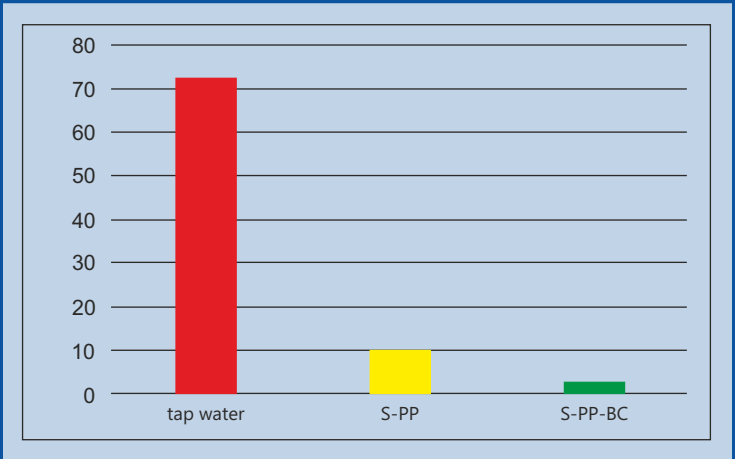


Figure 1. Total Microbial Count Results in dynamic conditions

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