

# FOULEX IMPROVES FILTER PERFORMANCE

at WAG Water Treatment Plant in Roetgen

Two Backflushing BOLLFILTERs Automatic were installed at the WAG Water Treatment Plant in Roetgen, Germany for the filtration of dam water. Removing particulates down to 150 microns, they provide primary protection for the membrane plant used for the ultra-filtration of potable water supply to the Aachen region.

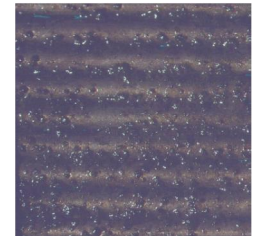
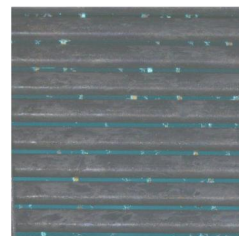
However, due to the presence of manganese bacteria, a biofilm formed on the filter elements after just three month's operating time. As a result, the normally self-cleaning filters had to be manually cleaned – washed inside and out with a high-pressure cleaner and decontaminated with an acidic cleaning agent.

The solution to the problem was a new development from BOLL & KIRCH's R & D Team: FouleX.

FouleX is an antibacterial coating designed to prevent biofilm contamination. It was applied to the WAG filter elements and, after three month's normal operation, the elements were checked and found to be free from biological growth.

The operating company at WAG was delighted with the improved filter performance. *“With the FouleX coating, the operating time without cleaning has been extended to 16 months. What is more, the cleaning process is much easier, requiring just rinsing with water.”*

A maintenance interval of 12 months is normally recommended for BOLLFILTER Automatic Systems. At the WAG plant, the FouleX coating has increased this by a third, significantly reducing maintenance and downtime. The cost for cleaning chemicals has also been reduced.



**Client** WAG Wassergewinnungs- und -aufbereitungsgesellschaft Nordeifel mbH

**System** 2x BOLLFILTERs Automatic Type 6.18 DN900 (150 microns) with filter elements treated with FouleX antibacterial coating

**TOP.** BOLLFILTER Automatic Type 6.18 System at WAG Water Treatment Plant.

**CENTRE.** WAG contaminated filter systems before treatment with FouleX.

**BOTTOM right.** Comparison of filter elements treated with FouleX.

**BOTTOM left:** Filter element free from biofilm.



BOLLFILTER UK Limited  
Unit 9 Station Way  
UK-Tolleshunt D'arcy, Essex CM9 8TY  
Tel.: +44/(0)1621/862180  
Fax: +44/(0)1621/869257  
E-mail: [sales@bollfilter.co.uk](mailto:sales@bollfilter.co.uk)  
[www.bollfilter.co.uk](http://www.bollfilter.co.uk)  
<http://bit.ly/see-more-Case-Studies>