

Mineral Water Pre-Filtration

System Improvement, Clarification

Customer:	Water bottler
Application:	Mineral water
Products:	Tekfil™ WF and Microfil™ WF
Primary Motive:	System Improvement, clarification
Location:	Spain
Project Date:	2019
Division:	New Milton, UK



Customer Overview:

A mineral water bottling company. Currently bottling 170 million litres per year, collaborating with one of the largest distributors in Spain.

Customer's Problem:

The water is sourced from a spring-water well.

The existing filters were clogging rapidly with large contaminant particles, causing system down-time and increased maintenance.

Porvair's distributor, who was already a supplier to the bottling plant, providing their final membrane filters, was asked to supply pre-filters in order to improve the system quality.

The distributor had already achieved positive results on-site and therefore proposed Porvair's Tekfil® WF and Microfil® WF filters.

Porvair Solution:

For the pre-filtration steps, Porvair worked together with the local distributor to recommend wide format (WF) filter elements with a depth melt blown polypropylene filter media and a glass fibre pleated filter media, as follows: Tekfil™ WF 5µm (40") and Microfil™ WF 1µm (40").

Project Overview:

As a retrofit replacement to the existing failing filters, Porvair supplied Tekfil™ WF (Ref. WFC-05A-40) and Microfil™ WF (Ref. WF01-40GF-E).

Whilst in the first instance, a like-for-like solution was supplied, in the second scenario, we recommended the use of glass fiber media to improve the clarification effects.

To date, the filters are still in operation (almost a year). They have exhibited performance improvements and optimized costs.

Product and System Information:

Tekfil™ WF 5µm (40") – Ref. WFC-05A-40

Microfil™ WF 1µm (40") – Ref. WF01-40GF-E

Other Opportunities:

All mineral water bottling companies faced with similar issues.

