

Mineral Water Clarification

Elimination of Yellow Colour After Seasonal Storms

Customer:	Water bottler
Application:	Mineral water
Products:	Carbofil™
Primary Motive:	To prevent turbidity of water after seasonal storms
Location:	Spain
Project Date:	2019-2020
Division:	New Milton, UK



Customer Overview:

The customer is one of Spain's largest mineral water bottling companies, currently bottling over 400 million litres per year.

Customer's Problem:

The customer was facing issues with the clarification of its product.

After the late summer storms, the water was coming out of the process with a yellow colour.

Porvair Solution:

Together with a local distributor, Porvair recommended that the customer installs Carbofil™ (40") activated carbon filter cartridges.

Activated carbon filters are widely applied in industrial process and civil use as the most efficient method of removing odours, chlorine, volatile organic compounds (VOC), colours, tastes and other contaminants from fluids.

The Porvair Carbofil™ series provide long service life and superior adsorption performance compared to conventional granular activated carbon cartridges together with minimum fines. With a high mechanical strength and low ash content, the carbon block structure prevents channelling, bypassing, fluidizing or unloading of carbon fines.

To prevent premature blocking of the activated carbon layer, the Carbofil™ filters incorporate an effective pre-filtration layer designed to intercept gels and large particles.

These can be supplied in any length and end cap configuration, to meet the requirements of the process application.

Project Overview:

Each time it rained for a prolonged period, the bottler was unable to use the water. The increased maintenance and down-time caused issues for the plant.

Tests were carried out in order to see where the turbidity (yellow colour) was coming from. The origin of the colour was discovered to be organic, and therefore would not disappear without passing the mineral water through activated carbon. Carbofil™ filter elements provided the right solution, thanks to its inherent physical adsorption properties.

Product and System Information:

Carbofil™ CR 5µm (40") – Ref. CR05N4BB.

Other Opportunities:

All mineral water bottling companies faced with similar issues.

