

FILTRALITE®

Filtralite® Clean



WASTE WATER

Filtering the water for tomorrow



Our purpose

Whether you live in Cairo, Chicago or Copenhagen, there is an increasing influx of people to the big cities. Demographic changes and urbanisation across the globe put a strain on cities and their capacity to supply basic necessities such as wastewater treatment.

With its unique porosity, Filtralite® Clean filter media offers optimum conditions for biofilm growth and for water to flow through the filter bed in order to retain and adsorb more contaminants. This feature allows for larger volumes of water to be filtered through the same volume as contact area is increased. Our products also decrease operation costs.

As cities are gearing for the future, Filtralite® Clean filter media is an innovative and premium filtering product tailored to meet tomorrow's needs.



What is Filtralite® Clean filter media?

Designed for wastewater treatment plants, Filtralite® Clean is a filter media suitable for both biological treatment and tertiary filtration.

Filtralite® products can be used:

- For biofilm growth support in aerobic (nitrification and organic matter) and anoxic (denitrification) biological reactors,
- In single and dual media tertiary/polishing filters.

What are the advantages of Filtralite® Clean in biological reactors?

In biological aerated filters, biomass is fixed to the Filtralite® media, which also works well as a mechanical filter for suspended solids. Filtralite® Clean offers

- great specific area for biofilm growth combined to high void ratio
- high number of macropores
- a very efficient process on volumetric bases
- lighter density than traditional media
- and high resistance to abrasion.

Filtralite® Clean performance in numbers

A **25-year lifespan** for Filtralite® Clean media in biological filters¹

In tertiary filtration, **time between backwashes** can be increased by about **25 %**²

Existing Filtralite® filters operate **around 15 m/h -20 m/h for tertiary filtration**

Our projects references:
¹ VEAS, Oslo, NO ² Käppala, Sweden

What are the advantages of Filtralite® Clean in tertiary filtration?

Compared to traditional filter media, Filtralite® has much higher porosity, which gives

- lower initial head loss,
- slower head loss build up
- higher particle storage capacity
- lower backwash rates
- lower operational costs.



Filtralite® Clean products for biological treatment

ROUND/CRUSHED MATERIAL	GRAIN SIZE	PARTICLE DENSITY
Round material	4-8 mm	1.400-1.600 kg/m ³
	3-6 mm	
Crushed material	2,5-5 mm	

Filtralite® Clean products for tertiary filtration

ROUND/CRUSHED MATERIAL	GRAIN SIZE	PARTICLE DENSITY
Crushed material	2,5-4 mm	1.100-1.300 kg/m ³
	1,5-2,5 mm	1.400-1.600 kg/m ³



More about Filtralite® ...

Filtralite® filter media is made by heating clay to around 1200° C, followed by crushing and sieving.

Dry particle densities in the range from 500 to 1.600 kg/m³ and aggregate size from 0 to 20 mm can be “tailor-made” for specific applications.

In addition to its low density and high porosity, Filtralite® offer high abrasion and impact resistance.

Filtralite develops and manufactures quality filter media for all water treatment applications:

- **Filtralite® Pure** for drinking water solutions, both for physical filtration and biological treatment
- **Filtralite® Clean** for wastewater treatment, both for biological process and tertiary filtration
- **Filtralite® Nature** for onsite water remediation
- **Filtralite® Air** is a premium filtering product which removes odour and results in clean air.

FILTRALITE®

Contact information

www.filtralite.com