

SIBELCO

THE PERFECT PARTNER FOR SAND IN DUAL MEDIA FILTERS

AnthraPure™



Material solutions advancing life

ANTHRAPURE™ FOR MAXIMUM RESULTS

Greater filtering performance and efficiency

AnthraPure's uniform grain sizes (uniformity coefficient of 1.2 to 1.4) create a more porous filter bed. This ensures that filtration is maximised throughout the depth of the bed, enabling longer filter runs, higher filtrate quality and fewer clogging problems.

AnthraPure's high external porosity (40-60%) enables a large surface area and void percentage, increasing the filter system's ability to remove suspended solids. To minimise dust levels, the production line consists of a dedusting system.

Optimised backwashing

Another key advantage of AnthraPure's low uniformity coefficient and isometric particles is optimal backwashing, thanks to quick, easy loosening of the filter media. This reduces the frequency of backwashing and the amount of maintenance required.

Extended filter media lifetime

Optimal backwashing means that you use less filter media, whilst AnthraPure's high hardness and low grindability means high attrition resistance and longer filter media lifetime.

Higher chemical resistance

AnthraPure's carbon content (minimum 93%) is 5-7% higher than other anthracite products. It does not react with alkaline or acidic water and has a low ash content (max 5%) and low sulphur content (max 1%).

Compliant with EU Standards EN 12909 and AWWA B100

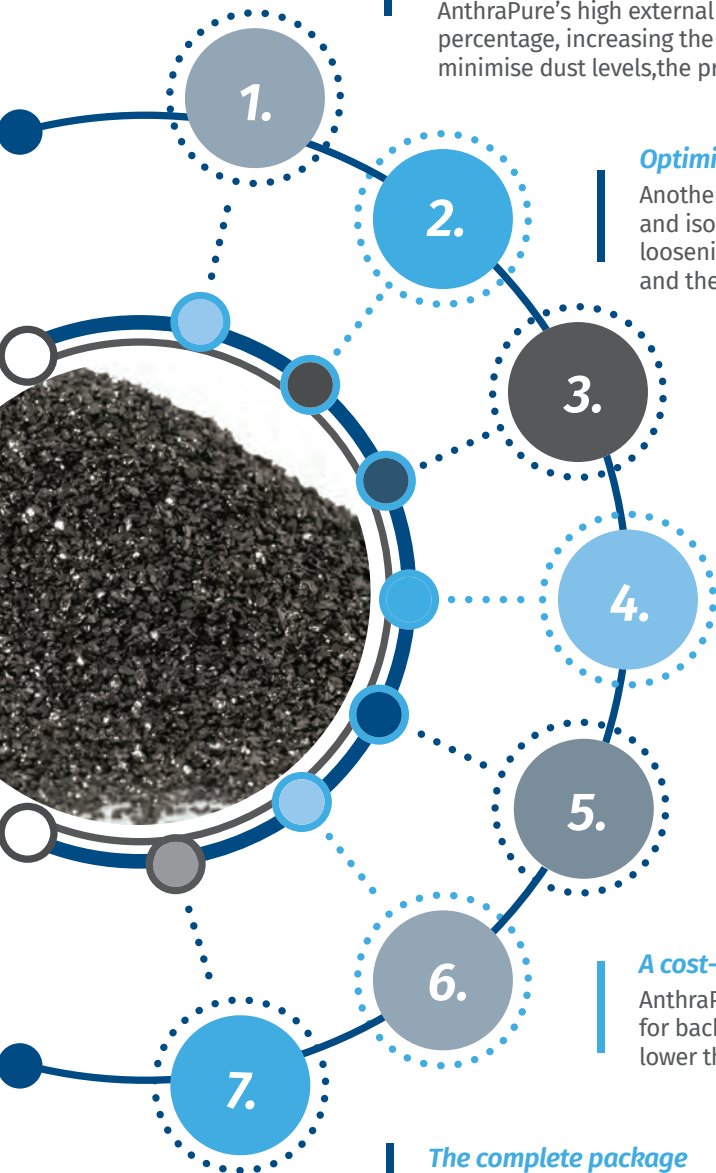
AnthraPure meets all requirements as a filtration material in the treatment of water intended for human consumption.

A cost-effective solution

AnthraPure's higher quality and longer lifetime, coupled with less need for backwashing and maintenance, means that total cost of ownership is lower than alternative anthracite products.

The complete package

We offer a leading range of high-quality filter sands to complement AnthraPure, creating the complete dual media filter solution.



THE BENEFITS OF DUAL MEDIA FILTRATION

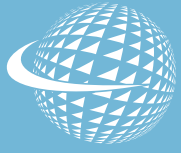
Dual media filters combine the filtration powers of sand and anthracite, delivering several key performance benefits over single media filters:

- the coarse, porous anthracite particles capture large suspended solids, ensuring higher water volume throughput, less clogging and longer filter runs to increase productivity
- meanwhile the finer sand particles capture smaller suspended solids to ensure optimal filtration performance
- this combination of fine and coarse particles enables dual media filters to treat water with higher levels of turbidity and suspended solids
- thanks to their superior performance, dual media filters are smaller than their single media counterparts, and so take up less footprint with lower filter bed construction costs

Anthracite and sand dual media filters are widely used in a number of applications, including:

- suspended solids removal from drinking, industrial process and recreational water
- tertiary treatment or polishing of municipal and industrial wastewaters
- desalination pre-treatment
- pre-treatment prior to RO membranes, activated carbon and ion exchange resins
- turbidity removal from well water





SIBELCO

ABOUT SIBELCO

We are a leading provider of industrial minerals and other materials with **195 production sites** spread across **34 countries**, supported by **20 technical laboratory facilities**.

We supply a range of environmentally-friendly materials to improve water treatment efficiency and water quality, working with customers worldwide in the municipal and industrial sectors. Our portfolio includes calibrated sands, fine-grained sands, microsands, support gravels, manganese dioxide, AnthraPure™, amongst others.

GET IN TOUCH

For further information about AnthraPure™ or our wide range of filtration materials, please email us at: environment@sibelco.com or visit www.sibelco.com



Material solutions *advancing life*