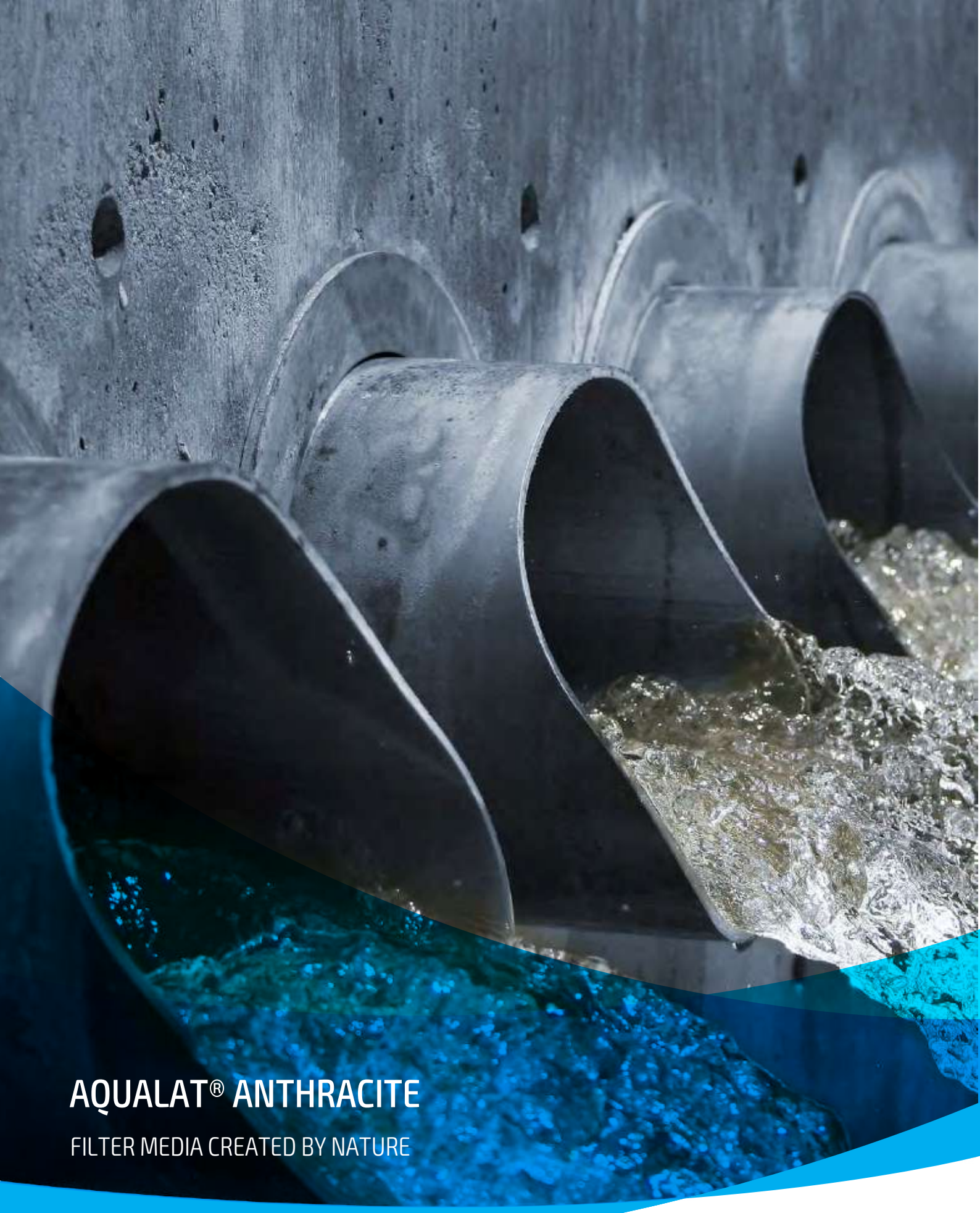

AQUALAT® ANTHRACITE

FILTER MEDIA CREATED BY NATURE

Aqualat®

Exclusive materials for water treatment


Aqualat®

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Aqualat®

Aqualat ® anthracite filter media is a selected coal, mined and processed for water treatment. Aqualat ® producing technology was developed by our associated company LLC ANTR-ACTIVE under the auspices of the leading research centers.

Aqualat® guarantees safe and continuous operation requiring minimal maintenance due to its stable structure. Thanks to higher rates of mechanical strength (wearability and grindability), lower intensity and duration of backwashing of the product is not destructed during the restoring of its characteristics.

Aqualat® Anthracite meets the purity requirements of the European standards (EN12909) which specify the harmlessness to human health.

| general information

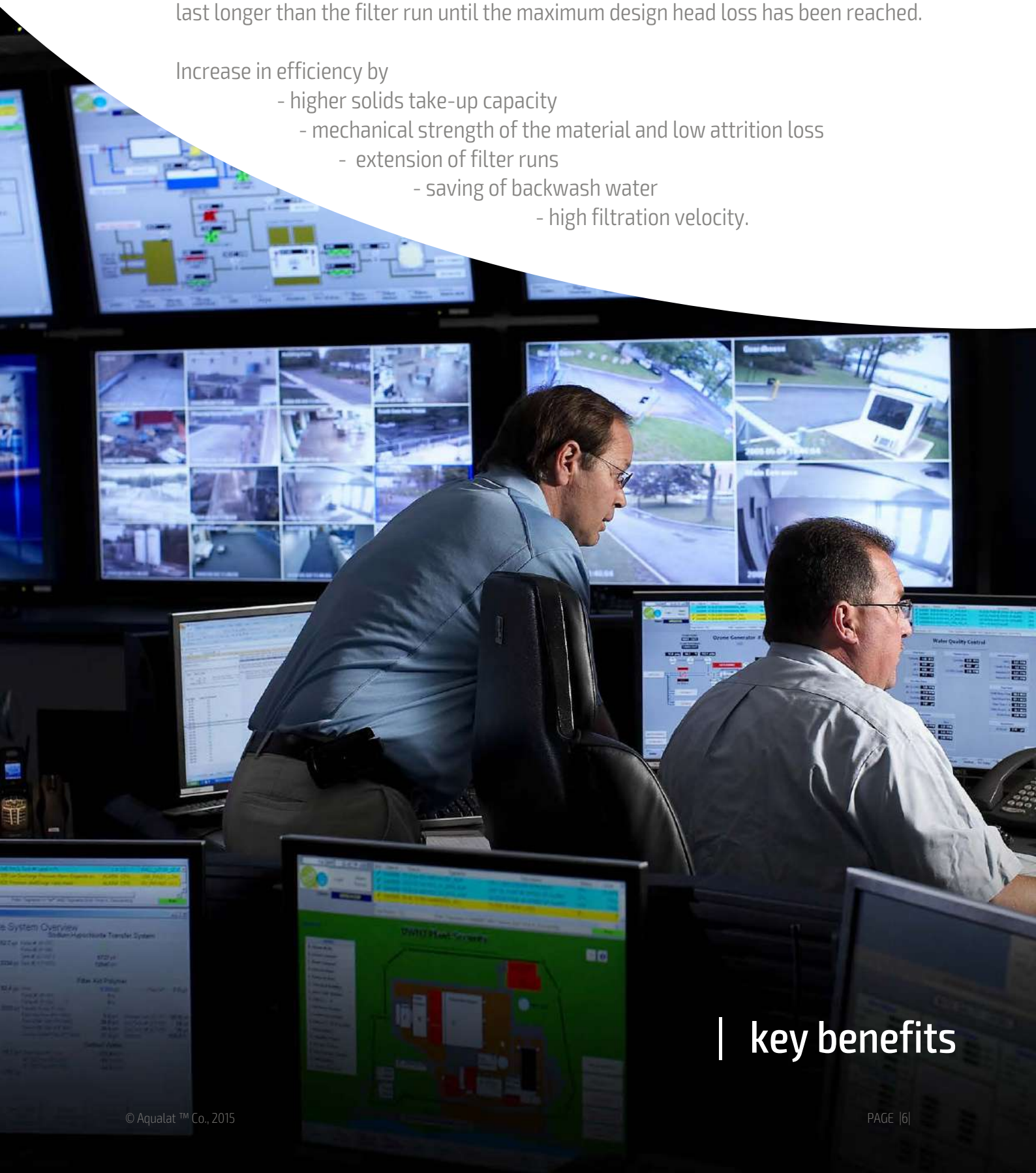
filelds of application |

Aqualat ® filter media have found wide application in all water sectors and is used for potable, industrial, process, waste water and swimming-pool water.
Aqualat ® is used as filter media in both open and closed fixed bed filters for:
- removal of suspended solids
- condensate filtration
- protection of coal filters, ion exchangers and RO membranes;
- filtration of reverse cycles
- filtration of coagulated water
- filtration of turbid well, spring, surface and artesian water
- filtration of waste water
- swimming-pool water.

Application of Aqualat ® in multi-layer filters leads to:

Improvements of filtration yield by
- increase in capture capacity of pollutants by the filter bed using in-depth filtration
- combination with fine grain materials as a lower material layer to cause improved and stable filtrate quality
- increase in protection against backwashing since the filter run up to backwashing will last longer than the filter run until the maximum design head loss has been reached.

Increase in efficiency by
- higher solids take-up capacity
- mechanical strength of the material and low attrition loss
- extension of filter runs
- saving of backwash water
- high filtration velocity.



| key benefits

key benefits |

1. High natural porosity: 30-60% porosity is a feature of the morphological structure of our Anthracite. It allows to produce filter media with increased hydrodynamic characteristics.
2. Higher solids take-up capacity
3. Particles shape: Aqualat® Anthracite has an ability to cleave into grains of isometric shape (spherical or cubic) during the fragmentation. This prevents destroying the structure and maintains the high porosity of Aqualat® Anthracite.
4. High carbon rate: Aqualat® has the carbon content between 92.1% and 98%. Carbon is an inert agent. Thus the high carbon rate provides the chemical resistance of the product.
5. Chemical resistance: There is no significant increase of the concentration of silicic acid, oxidation, and the solid residue during contact of Aqualat® Anthracite with filtering water, that indicates the chemical resistance of the product.
6. High bulk density: approx. 900 kg/m3 - It is a consequence of the stage of high-grade metamorphism processes. Anthracite is the most metamorphosed type of coal. It determines its gravity and hardness parameters. Unique density allows Aqualat® Anthracite to be combined with other filtration media in multi-media filters.
7. Higher service flows and extension of filter runs than equivalent filters. Engineers can use higher velocities (recommended velocities) for filtration and backwashing. Low UC extends the life of your filter before the media must be changed out.
8. High hardness: 4 Mohs hardness rate allows Aqualat® Anthracite to be resistant to attrition and provides for years of reliable service.
9. Low attrition losses mean that only small quantity is needed to be added annually.
10. Saving of backwash water due to efficiency of backwashing
11. Lower uniformity coefficient (UC) has less oversized and undersized particles resulting in a highly uniformed bed.

Index item	Analysis result
Carbon, %	92 min by wet
Ash content, Ad, %	5 max
Moisture content, Wd, %	3.0 max
Sulphur content, S^{d}_{t} %	1.0 max
Volatile matters, %	3.5 max
Acid solubility, %	1.0 max
Uniformity coefficient	1.5 max
Attrition loss, %	0.3 max
Refinability, %	3.0 max
Hardness, Mohs	4 min
Bulk density, kg/m3	approx. 900
Grain size, mm	upon request

| technical specifications

40 × 25 l PE bags
on 1 m^3 pallet

900 kg big bag

Aqualat® Anthracite should be stored in an intact closed original package in order to prevent contamination of material. Refilling should be done exclusively out of original containers.

Packing of the product is shipped in 25 liter PE bags on pallets (1 m^3) or PP woven 900 kg big bags with brand logo. Each bag is supplied by plastic liner to protect from moisture during transportation and storage.

Aqualat® Anthracite is transported by all means of transport according to the shipping rules.

storage | delivery

business relations |

Under the auspicies of the leading researching centers our team always works on Aqualat® anthracite filter media operation improvement. That's why we guarantee the stable quality.

We are always searching for long-term relationships based on trust and comprehension with different kind of entities: middle men, dealers, distributors and end-customers regardless of their size or residence.

Due to constantly developing distributorship relations our product becomes closer to customer.

We have strong logistics network and can deliver our product everywhere optimizing your shipping costs. Large stock facilities allow to minimize the delivery time. Our customers can always count on the technical support needed for qualified operation assistance.

Aqualat® Anthracite filter media production is based on the accredited environmental management system ISO 14001.

environmental policy

Aqualat

anthracite filter media

Exclusive materials for water treatment

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