



**AQUALAT® ANTHRACITE FILTER MEDIA**

created by nature





**1. General information**

Aqualat® anthracite filter media is a selected coal, mined and processed for water treatment. Aqualat® producing technology was developed by LLC TERS 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 filter material does not destruct during the restoring of its characteristics.

Aqualat® filter media meet the purity requirements of the European standards which specify the harmlessness to human health.

**2. Fields 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 filtered bed filters for:

- removal of suspended solids
- condensate filtration
- protection of coal filters, ion exchangers and RO membranes;

branes;

- filtration of reverse cycles
- filtration of coagulated water
- filtration of turbid well, spring, surface and artesian water
- filtration of waste water
- swimming-pool water.

**3. Key benefits**

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

**3.1. Improvements of filtration yield by**

- increase in capture capacity of pollutants by the filter bed using in-depth filtration
- combine with fine grain materials as a lower material layer to cause improved and stable filtrate quality
- increase in protection against breakthrough since the filter run up to breakthrough will last longer than the filter

run until the maximum design head loss has been reached.

**3.2. 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.

**4. Chemical and physical data**

**4.1. Chemical composition**

Carbon..... approx. 92.0 %  
 Ash content.....not more 5.0 %  
 Sulfur content..... not more 1.0 %  
 Moisture content.....not more 3.0 %

**4.2. Physical characteristics**

Acid solubility..... not more 1.0 %  
 Content of main grain size..... not less 90.0 %  
 Volatile matter.....not more 3.5 %  
 Density..... 1600 kg/m<sup>3</sup>

Bulk density .....approx. 900 kg/m<sup>3</sup>  
 Attrition loss.....not more 0.3 %  
 Refinability .....not more 3.0 %  
 Hardness..... 4 Mohs

**Grain sizes**

filter layer, mm, .....0.5-1.2, 0.6-1.2, 0.6-1.6, 0.6-1.8, 0.8-2.0, 1.0-3.0  
 filter supporting layer, mm.....2.0-3.0, 2.0-4.0, 2.0-5.0, 3.0-6.0  
 Another grain size .....upon request

**5. Storage**

Aqualat® should be stored in an intact closed original package in order to prevent contamination of material. Re-

filling should be done exclusively out of original containers.

**6. Delivery**

Aqualat® is delivered:  
 - in 25 l PE palletised bags (pallets 1 m<sup>3</sup>)

- in 900 kg palletised big bags.



**Aqualat®**

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Index item	Analysis result
Carbon, %	92 min by wet
Ash content, Ad, %	5 max
Moisture content, Wd, %	3.0 max
Sulphur content, S <sup>d</sup> <sub>t</sub> %	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/m <sup>3</sup>	approx. 900
Grain size, mm	upon request

## | technical specifications



40 × 25 L PE bags  
on 1 m<sup>3</sup> 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 PE bags on pallets (1 m<sup>3</sup>) 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**