

Aqualite™

– Cleantech from Mother Nature



Efficient water purification without chemical additives – saving water and energy.

- Large active surface area: 200 – 500 m²/g
- Uniform structure and large pore volume
- Very fine pores: 0,1 – 1,0 Nanometer
- Textural and morphological advantages due to its composition of mezzo pores, macro pores and micro pores
- Filters off particles greater than 1 – 2 microns
- Adsorbs chemicals and petroleum products
- Reduces heavy metals and ammonium- and hydrogen compounds
- Reduces bacteria
- Less environmental impact
- Lower cut-off
- Significant water clarity
- Improved T10-value
- Reduced energy need
- Improved backwashing efficiency
- Longer filter cycles
- Reduced water consumption
- Less consumables

Physical properties

Physical form		Grey granules
Adsorption capacity	NH ₄	21 g/kg
Adsorption capacity	CO ₂	58 mmol/g
Dynamic water adsorption capacity		260 mg/g
Particle density		2,2 – 2,3 kg/l
Volume density		1,15 – 1,2 l/kg
Ion-exchange capacity		1,15 meq/g
Active area		200 – 500 m ² /g
Hardness		3 - 4 Moh
Melting point		400 °C
Water solubility		Insoluble

Ion-exchanging priority order:

NH₄>K>Fe>Cs>Ba, Sr, Pb>P, Ca>Cu, Ag, Hg>Zn>Cd>Mn>Co>Al>Mg, Li>Ni

Recommended operating conditions

Max operating temperature		100 °C
Minimum bed depth		600 mm
Optimal bed depth		1000 – 1200 mm
Service flow rate	5-15 m/h @ 1000 mm bed depth	
Back washing flow rate		25 – 35 m/h
Bed Expansion		30 – 40 %
Regenerant		NaCl 10 – 12 %