

## PRODUCT SPECIFICATION OF FILTRALITE®

### Filter media

#### FILTRALITE P 0-4

Commercial name	FILTRALITE® P 0-4 mm
Density	Bulk density: 500 kg/m <sup>3</sup>
Type of material	Expanded clay
Appearance	Crushed particles, porous surface structure
Manufactured by	Weber Leca Rælingen, Norway

Size and weight	Value	Deviation	Comments
Effective size	0,3 mm		d <sub>10</sub> , Approximately value
Particle size range	0-4 mm	> 4 mm max. 5 %	
Coefficient of uniformity	< 15		d <sub>60</sub> / d <sub>10</sub>
Bulk density, dry	500 kg/m <sup>3</sup>	± 75 kg/m <sup>3</sup>	EN 1097-3
Particle density, dry (PDD)	950 kg/m <sup>3</sup>	± 200 kg/m <sup>3</sup>	Exclay Norm

Other properties	Value	Comments
Floating particles	< 20 %	Approximately volume floating particles after 2 days in water.
Particle porosity	65%	Approximately value. Porosity internal particle: (1-PDD/2700 kg/m <sup>3</sup> )*100 %
Voids	42 %	Approximately value. EN 1097-3
pH	12	Exclay Norm
Alkalinity	35 mekv/l	New material. NS 4754
Water adsorption 1 day	31 %	Approximately value. Exclay Norm
<u>Hydraulic conductivity</u>		
K	100 m/d	9 °C, Clean water
K dim	25 m/d	9 °C, Filter media with wetland plants, pre-treatment in septic tank and aerobic biofilter or equivalent system

The sewage water has to be pre-treated in septic tank and aerobic biofilter (or equivalent system) before the Filtralite P filter bed. Recommended loading of prefiltered municipal wastewater: 7-10 m<sup>3</sup> Filtralite P / p.e., (p.e. = 0,6 kg P /year)

The material will leak some lime in the start-up period.

All values are based on assumption of use of the filtermaterial in saturated reed bed / constructed wetlands with long retention time and use of typical municipal wastewater. We strongly recommend use of consultants or system suppliers for sizing and design of wetland systems.

This material shall not be pumped.

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