

PRODUCT SPECIFICATION OF FILTRALITE®

Filter media

Filtralite P 0,5-4

Commercial name	FILTRALITE® P 0,5-4 mm
Density	Loose bulk density: 370 kg/m ³
Type of material	Expanded clay
Appearance	Crushed particles, porous surface structure
Manufactured by	maxit Leca Rælingen, Norway

Size and weight	Value	Deviation	Comments
Effective size	1,2 mm		d ₁₀
Particle size range	0,5-4 mm	< 0,5 mm max 5 % > 4 mm max 5 %	
Coefficient of uniformity	< 3,5		d ₆₀ / d ₁₀
Loose bulk density, dry	370 kg/m ³	± 75 kg/m ³	EN 1097-3
Particle density, dry (PDD)	910 kg/m ³	± 200 kg/m ³	Exclay Norm

Other properties	Value	Comments
Particle porosity	~ 65 %	Porosity internal particle: (1-PDD/2700 kg/m ³)*100 %
Voids	~ 60 %	Approximately value. EN 1097-3
pH	12	Exclay Norm
Alkalinity	35 mekv/l	Approximately value. NS 4754
Water adsorption 1 day	30 %	Approximately value. Exclay Norm
Water adsorption 1 month	50 %	Approximately value. Exclay Norm

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 m³ 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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