

PRODUCT SPECIFICATION OF FILTRAMAR[®] KG

Filter media

Quality KG Coarse

Commercial name	FILTRAMAR [®] Quality KG Coarse
Density	Bulk density: 800 kg/m ³ Particle density: 1400 kg/m ³
Type of material	Shell sand
Appearance	Angular and sub-angular particles, with high porosity
Manufactured by	Boston AS, Norway

Sizes and densities	Value	Deviation	Comments
Effective size	0,7 mm		d10, approximate value
Particle size range	0-7 mm	>7 mm max. 2 %	
Coefficient of uniformity	< 4		d60 / d10
Bulk density, dry	800 kg/m³	± 100 kg/m ³	NS-EN ISO 7837
Particle density, dry (PDD)	1400 kg/m³	± 200 kg/m ³	

Other properties	Value	Comments
Particle porosity	50 %	Approximate value. Porosity internal particle: (1-PDD/2800 kg/m ³)*100 %
Voids	38-44 %	Approximate value. EN 1097-3
Total surface (BET value)	3000 m²/kg	BET measurements, ER method 93/19 (Euroc Research)
pH	8,0-8,5	NS 4720, measured at atmospheric CO ₂ balance
P adsorption (isothermic)	4,0 g/kg	Adsorption by mixing and shaking method
Hydraulic conductivity, calculated (Hasen's equation)	800 m/d	Clean water
K	300 m/d	Filter media with wetland plants, pre-treatment in septic tank and aerobic bio filter or equivalent system
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The sewage water has to be pre-treated in septic tank and aerobic bio filter (or equivalent system) before the Filtramar[®] KG filter bed. Recommended loading of pre-filtrated municipal wastewater: 3-4 m³ Filtramar[®] KG / p.e. (p.e. = 0,6 kg P / year)

All values are based on assumption of use of the filter material 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.

DISCLAIMER: Key data are for the purpose of dimensioning the plant. Management of the plant and conditions beyond the terms of the producer, affecting lifetime of the filter, are the responsibility of the plant owner.

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