

PRODUCT SPECIFICATION OF FILTRALITE®

Filter media

FILTRALITE® HR 3-6 mm

Commercial name	FILTRALITE® HR 3-6 mm
Density	Bulk density: 825 kg/m ³ particle density: 1450 kg/m ³
Type of material	Expanded clay
Appearance	Round particles, smooth surface structure
Manufactured by	maxit Leca Rølingen, Norway

Size and weight	Value	Deviation	Comments
Effective size	3,5 mm	± 0,3 mm	d ₁₀
Particle size range	3-6 mm	< 2,5 mm max 3 % + Δ < 0,125 mm > 6,0 mm max. 5 %	
Coefficient of uniformity	< 1,5		d ₆₀ / d ₁₀
Bulk density, dry	825 kg/m ³	± 75 kg/m ³	EN 1097-3
Particle density, dry (PDD)	1450 kg/m ³	± 100 kg/m ³	Exclay Norm

Other properties	Value	Comments
Floating particles	< 2%	Maximum volume floating particles after 2 days in water.
Particle porosity	46 %	Porosity internal particle: (1-PDD/2700 kg/m ³)*100
Voids	43 %	EN 1097-3
Acid solubility	< 4 %	EN 12902
Friability loss	< 4 %	EN 12902
Water adsorption 1 day	10 %	Approximately value. Exclay Norm
Water adsorption 28 days	25 %	Approximately value. Exclay Norm
Water adsorption 1 year	30 %	Approximately value. Exclay Norm
Settling velocity	0,2 m/s	Approximately value. Exclay Norm (water saturated)
Mohs' hardness	6	

Chemical composition, average values:

SiO ₂	Al ₂ O ₃	FeO ₃	K ₂ O	MgO	CaO	Na ₂ O	C _{tot}
62%	18%	7%	4%	3%	3%	2%	0,02%

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