

PRODUCT SPECIFICATION OF FILTRALITE®

Filter media

FILTRALITE® NR 2-4

Commercial name	FILTRALITE® NR 2-4 mm
Density	Bulk density: 360 kg/m ³ particle density: 650 kg/m ³
Type of material	Expanded clay
Appearance	Round particles, smooth surface with micropores
Manufactured by	Optiroc Rælingen /Optiroc Borge, Norway

Size and weight	Value	Deviation	Comments
Effective size	2,2 mm	± 0,4 mm	d ₁₀
Particle size range	2-4 mm	< 1,8 mm max. 10 % > 4,0 mm max. 10 %	
Coefficient of uniformity	< 1,7		d ₆₀ / d ₁₀
Bulk density, dry	360 kg/m ³	± 50 kg/m ³	EN 1097-3
Particle density, dry (PDD)	650 kg/m ³	± 100 kg/m ³	Exclay Norm

Other properties	Value	Comments
Floating particles, 2 days	90 %	Approximately volume floating particles after 2 days in water.
Floating particles, 28 days	85 %	Approx. volume floating particles after 28 days in water
Floating particles, 2 years	15 – 20 %	Approx. volume floating particles after 2 years in water
Particle porosity	76 %	Porosity internal particle: (1-PDD/2700 kg/m ³)*100%
Voids	45 %	EN 1097-3
Water adsorption 1 day	15 %	Approximately value. Exclay Norm
Water adsorption 1 month	40 %	Approximately value. Exclay Norm
Water adsorption 1 year	85 %	Approximately value. Exclay Norm
Water adsorption 2 years	95 %	Approximately value. Exclay Norm

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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