

PRODUCT SPECIFICATION OF FILTRALITE®

Filter media

FILTRALITE® NC 1,5-2,5

Commercial name	FILTRALITE® NC 1,5-2,5 mm
Density	Bulk density: 235 kg/m ³ particle density: 720 kg/m ³
Type of material	Expanded clay
Appearance	Crushed particles, porous surface structure
Manufactured by	maxit Leca Rølingen, Norway

Size and weight	Value	Deviation	Comments
Effective size	1,7 mm	± 0,3 mm	d ₁₀
Particle size range	1,5-2,5 mm	< 1,4 mm max. 5 % +Δ < 0,125 mm > 2,5 mm max. 5 %	
Coefficient of uniformity	< 1,5		d ₆₀ / d ₁₀ ,
Bulk density, dry	235 kg/m ³	± 75 kg/m ³	EN 1097-3
Particle density, dry (PDD)	720 kg/m ³	± 150 kg/m ³	Exclay Norm
Particle density, wet			
After 1 day in water	1038 kg/m ³	± 150 kg/m ³	
After 300 days in water	1115 kg/m ³	± 150 kg/m ³	

Other properties	Value	Comments
Particle porosity	73 %	Porosity internal particle: $(1 - \text{PDD} / 2700 \text{ kg/m}^3) * 100$
Voids	67 %	EN 1097-3
Acid solubility	< 5 %	EN 12902

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%

As the particle density in dry conditions is lower than the density of water, parts of the material will float until it is saturated with water.

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