

Quality Parameters for Perlite (RAL-GZ 250/5-3)



Quality parameter	Range of values		
	type of particles		
	0 - 3 mm	0 - 6 mm	2 - 6 mm
1 Physical Properties			
1.1 Particle size			
1.1.1 Fraction of undersize particles [m-%]			≤ 15
1.1.2 Fraction of oversize particles [m-%]	≤ 5	≤ 5	≤ 5
1.1.3 Fraction ≤ 3 mm [m-%]	≥ 95	≤ 85	≤ 75
1.1.4 Fraction ≤ 0,5 mm (fines fraction) [m-%]	≤ 15	≤ 15	≤ 5
1.2 Volume weight dry ¹⁾ [g/l]	80	90	90
1.3 Volume weight moist [g/l]	to be analysed		
1.4 Impurities	none		
2 Chemical Properties			
2.1 pH value (CaCl ₂)	≤ 8.5		
2.2 Salinity (KCl) [g/l]	≤ 0.3		
alternativ: electrical conductivity [µs/cm]	≤ 100		
2.3 Soluble nutrients			
2.3.1 Nitrogen (NH ₄ -N + NO ₃ -N) [mg/l]	≤ 20		
2.3.2 Phosphorous (P ₂ O ₅) [mg/l]	≤ 20		
2.3.3 Potassium (K ₂ O) [mg/l]	≤ 20		
2.4 Magnesium (Mg) [mg/l]	≤ 20		
2.5 Calcium (Ca) [mg/l]	≤ 20		
2.6 Sodium (Na) [mg/l]	≤ 20		
2.7 Chloride (Cl) [mg/l]	≤ 20		
2.8 Sulfate (SO ₄) [mg/l]	≤ 20		
2.9 Fluoride (F) [mg/l]	≤ 5		
2.10 Total content of heavy metals			
2.10.1 Arsenic (As) [mg/kg TM]	≤ 40		
2.10.2 Lead (Pb) [mg/kg TM]	≤ 150		
2.10.3 Cadmium (Cd) [mg/kg TM]	≤ 1,5		
2.10.4 Chromium (Cr) [mg/kg TM]	≤ 300		
2.10.5 Nickel (Ni) [mg/kg TM]	≤ 80		
2.10.6 Mercury (Hg) [mg/kg TM]	≤ 1		
3 Biological Properties			
3.1 Growth inhibitors	Germination test produces no evidence for growth inhibitors		

¹⁾ The values are to be adhered to with a tolerance of ± 20 %.

²⁾ The specifications of the Fertiliser Ordinance are to be observed.