

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


| Quality parameter | Range of values | | |
|---|--------------------------|----------|----------|
| | 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 | | |
| 2.10.7 Thallium (Tl) [mg/kg TM] | ≤ 1 | | |
| 3 Biological Properties | | | |
| 3.1 Plant damaging substances | no plant damaging effect | | |

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

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