

Quality Parameters for Sphagnum Peat (RAL-GZ 250/5-2)


| Quality Parameters | Range of Values | | | | |
|--|--|------------------------------|---------------------------------|----------------------------------|---------------------|
| | 1 | 2 | 3 | 4 | 5 |
| 1 Physical properties | | | | | |
| 1.1 Degree of decomposition according to von POST | H2-H4 | H3-H5 | H4-H6 | H5-H7 | H6-H8 |
| Assessment of degree of decomposition | weakly decomposed | weakly-moderately decomposed | moderately decomposed | moderately - strongly decomposed | strongly decomposed |
| 1.2 Water capacity of organic content [g/100 g] | ≥ 900 | ≥ 700 - 900 | ≥ 550 - 700 | ≥ 400 - 550 | ≥ 350 - 400 |
| 1.3 Bulk density (dry) [g/l] | to be analyzed | | | | |
| 1.4 Dry matter [weight %] | to be analyzed | | | | |
| 2 Chemical properties | | | | | |
| 2.1 pH value | ≤ 4.0 (CaCl ₂ suspension) | | ≤ 4.5 (water suspension) | | |
| 2.2 Salinity [g/l] | ≤ 0.5 | | | | |
| Alternative: electrical conductivity [mS/cm] | ≤ 0.175 (extraction ratio 1+3.6) | | ≤ 0.50 (extraction ratio 1+1.5) | | |
| 2.3 Soluble nutrients ¹⁾ | | | | | |
| 2.3.1 Nitrogen (NH ₄ -N+NO ₃ N) [mg/l] | ≤ 50 | | | | |
| 2.3.2 Phosphorus (P ₂ O ₅) [mg/l] | ≤ 30 (CAT extract) | | ≤ 50 (CAL extract) | | |
| 2.3.3 Potassium (K ₂ O) [mg/l] | ≤ 40 (CAT extract) | | ≤ 50 (CAL extract) | | |
| 2.4 Organic content [% DM] | ≥ 90 | | | | |
| 2.5 Total content of heavy metals | | | | | |
| 2.5.1 Arsenic (As) [mg/kg DM] | ≤ 40 | | | | |
| 2.5.2 Lead (Pb) [mg/kg DM] | ≤ 150 | | | | |
| 2.5.3 Cadmium (Cd) [mg/kg DM] | ≤ 1.5 | | | | |
| 2.5.4 Chromium (Cr) [mg/kg DM] | ≤ 300 | | | | |
| 2.5.5 Nickel (Ni) [mg/kg DM] | ≤ 80 | | | | |
| 2.5.6 Mercury (Hg) [mg/kg DM] | ≤ 1 | | | | |
| 2.5.7 Thallium (Tl) [mg/kg DM] | ≤ 1 | | | | |
| 3 Biological properties | | | | | |
| 3.1 Plant damaging substances | no plant damaging effect | | | | |
| 3.2 Weed content | max. 1 germinating seed or sprouting plant / l of peat | | | | |
| 4 Other requirements | | | | | |
| 4.1 Impurities > 2 mm (e.g. plastics, metal or glas) | none | | | | |
| 4.2 Stones > 10 mm | none | | | | |
| 4.3 Foreign odour | without foreign odour | | | | |
| 4.4 The temperature must be controlled during storage At temperatures > 35 °C suitable measures are to be taken in order to prevent further heating-up At temperatures > 40 °C the peat is no longer suitable as a growing media constituent | | | | | |
| 5 On initiative by the Quality Committee | | | | | |
| Additional parameters that are not analysed frequently can be specified in a given case by the quality commission in consultation with the testing organisations involved. | | | | | |
| Declaration ²⁾ | | | | | |
| Material | Sphagnum peat | | | | |
| Type of peat | 1 - 5 | | | | |
| production plant / provenance | | | | | |

1) The nutrient contents must be declared if they are above the respective reference values.

2) The requirements concerning the Fertiliser Ordinance must be taken into account.