

Quality Parameters for Quality Assurance Potting Soil (RAL-GZ 250/3)



Quality Parameters	Range of Values
Permissible constituents and additives	Suitable organic, mineral and synthetic materials (materials of approved quality should be used if an appropriate quality assurance system exists. The decision belongs to the Quality Committee "Growing Media and Potting Soils")
1 Physical properties	
1.1 Fraction of oversize particles	> 20 mm max. 5 vol.%
1.2 Bulk density (dry)	To be analyzed
2 Chemical properties	Desired values, including the permissible deviations, must be within the specified ranges of values (refer to Table 3-A in Section 3-2.2 in the Quality and Testing Regulations)
2.1 pH value ¹⁾	5.0 - 6.5
2.2 Salinity ¹⁾ [g/l]	< 3.0
2.3 Soluble nutrients (mg/l) ¹⁾	
2.3.1 Nitrogen (NH ₄ -N + NO ₃ -N) [mg/l]	CaCl ₂ : > 100 CAT: > 100
2.3.2 Phosphorus (P ₂ O ₅) [mg/l]	CAL: > 80 CAT: > 40
2.3.3 Potassium (K ₂ O) [mg/l]	CAL: > 100 CAT: > 80
2.4 Sodium (Na) ^{1) 2)} [mg/l]	< 100
2.5 Chloride (Cl) ^{1) 2)} [mg/l]	< 200
3 Biological properties	
3.1 Plant damaging substances	no plant damaging effect
3.2 Weed content	max. 3 seedlings or sprouting plant parts per litre substrate
3.3 Nitrogen dynamics (N immobilization / N mineralization ²⁾	stabilized
Deklaration	
1.1 The declaration must be carried out according to the Fertilizer Ordinance	
1.2 Slow-release fertilizer additives	Amount and type with specification of soluble nutrient content
1.3 Date of production	Coded; uncoded in the case of slow-release fertilizer additive or > 2 kg/m ³ urea condensate

¹⁾ With the agreement of the Quality Committee "Growing Media and Potting Soils", variations are possible for special potting soils.

²⁾ Examination may be determined in accordance with section 2.4.2.2. sentence 3, if required by the quality committee

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Permissible deviation from the desired value

Parameter	Permissible deviation
pH value	± 0.4
Salt content	$\pm 40 \%$ maximum 0.7 g/l
Soluble nutrients ($\text{NO}_3\text{-N} + \text{NH}_4\text{-N}$, P_2O_5 , K_2O)	$\pm 40 \%$