# SOIL SAMPLE KIT

## SOIL CHECK SC FULL EDITION

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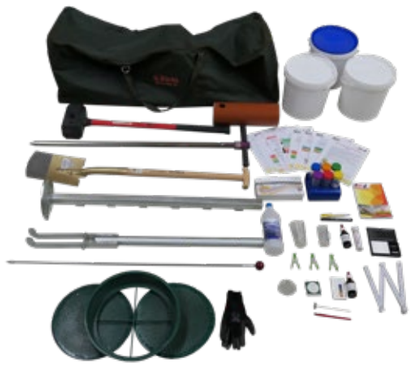
# SOIL CHECK FULL EDITION

The Soil Check Full Edition convinces with extensive possibilities to check your soil quickly and easily in order to obtain important key data. With the help of pictorial explanations, this kit can be used specifically to measure or determine the pH value (soil water and neutral salt), nitrate content, carbonate content (CaCO3), aggregate and humus stability, soil infiltration, soil temperature, general compaction, soil zones, soil type and soil type differences. You will recognise the condition and needs of your soil and can adapt your management practices if necessary.

## DELIVERY SCOPE

- Transport bag
- Drill stick and drawing tool
- Hammer
- Spade
- Bucket
- Filter paper
- Test tubes
- Hydrochloric acid 10
- pH test strips
- Nitrate test strips
- Soil probe
- and much more



## AGGREGATE - AND HUMUS STABILITY

Turbidity and colouring of the soil sample diluted with distilled water provide information about the stability of the aggregates and the activity of the microorganisms in the soil.

## FINGER SAMPLE

- The soil type can be determined via an assessment table
- Sand, loam, clay and gradations within the soil types



## DETERMINATION OF NITRATE CONTENT ($NO_3$)

- Take several soil samples and divide them at different depths.
- Add 100 ml of distilled water to the soil.
- Determine the plant-available nitrogen (in kg/ha) by means of a measuring strip.


## PH-VALUE MEASUREMENT BY MEANS OF NEUTRAL SALT

- Fill the fine portion of the soil sample into the recess provided in the Pehameter.
- After mixing with indicator solution, the pH-value can be determined via the colour of the solution.

## PH-VALUE MEASUREMENT BY MEANS OF SOIL WATER

- Fill the fine portion of the soil sample into a test tube and add distilled water.
- Determine the pH-value by means of a pH-value test strip.

## DETERMINATION OF THE CARBONATE CONTENT ($CaCO_3$)

- Place a soil sample from the topsoil (up to approx. 15 cm) in a Petri dish.
- Sprinkle with 2-3 drops of hydrochloric acid 10 % (HCl) observe reaction and determine $CaCO_3$ content

## DETERMINATION OF THE SOIL TEMPERATURE AND A GENERAL COMPACTION

- By means of a soil probe, compaction can be detected at various depths (up to 100 cm deep).
- You can detect general compaction in the subsoil area such as plough or tractor soles
- The soil temperature can be measured with the penetration thermometer

## SOIL INFILTRATION (WATER ABSORPTION CAPACITY OF THE SOIL)

- Using a PVC pipe and 1.1 L of water, a precipitation of 100 litres / m2 is simulated.
- Depending on the duration of the infiltration, the water absorption capacity of the soil can now be inferred.

## INFORM YOURSELF NOW!



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