

# Technical Data Sheet



**Product Name: OTTO O.A.S.E**



**mm.0,5 - 2,0**



**mm.2,0 - 6,0**



**mm.6,0 - 12,0**

**for the improvement of soil fertility and enhancement of the water storage capacity of soil**

## Description

OTTO O.A.S.E. is a granulated organic/mineral soil additive, which improves the growth of roots and plants by optimizing the water balance and additional nutrient supply.

OTTO O.A.S.E. is newly patented soils granulate. It consists of a combination of different dried plant fibers and micronized water adsorbing soil minerals mixed with especially developed super absorbents compacted to solid flowable granulates.

In the ground, the incorporated granulates act as multiple rechargeable mini reservoirs and supply the soil with natural macro and micro nutrients. Simultaneously, the soil life is activated by the addition of organic mass.

Soil health and structure are optimized and the eco system is stabilized.

This double mechanism of action (soil fertility and water storage) of the granulates enhances a healthy plant growth. Furthermore, the potential yield of numerous plants can be utilized in a more efficient manner.

OTTO O.A.S.E. can be used at all locations.

Particular benefits are provided in regions of low or irregular rainfall with long dry periods. OTTO O.A.S.E. is a convincing solution in all places where irrigation is expensive or hardly practicable and high water prices or limited water availability restricts cultivation.

The product can be used in all planting and cultivating activities in the areas of horticulture, landscaping, agriculture and forestry.

The dry, flowable granulates can be applied by hand or any conventional seeder or injector. OTTO O.A.S.E. can also be mixed with other soil additives, e.g. organic/mineral fertilizers or soil substrata.

## Composition

Natural dried plant remains (cereal, rice and corn), soil minerals (clay, calcite, leonardite), plant fibers and water-storing super absorbers developed for agriculture.

## Physical/chemical Properties

Appearance/Color:	Light brown granulates
Density (g/cm <sup>3</sup> ):	appr. 0.8
Granulate sizes:	0.5 – 2mm; 2 - 4mm; 4 - 6mm; 6 - 12mm
pH-Value:	7.5
Carbon content:	38%
Organic Nitrogen (N):	2.5%
C/N Ratio:	15
Additional Nutrients:	Phosphate, potassium, calcium, magnesium, iron, manganese, zink, copper, molybdenum
OTTO O.A.S.E. is:	Free of chloride
Water-storing capacity:	appr.20 - 30 times of its own dry weight

## Biological/Technical Properties

- Improves the water-storing capacity of soil for a long-term optimal water supply of plants.
- High content of organic mass to improve the soil fertility.
- Enhances the activity of beneficial micro-biological processes in the soil.
- Offers a balanced natural nutrient supply of macro and micro nutrients.
- Improves the growth of the root system.
- Improves yield and quality of many crops.
- Enhances the water efficiency (savings of up to 50% of irrigation water).
- Optimal pH-value of 7.5.
- Free of chloride.
- OTTO O.A.S.E. is completely safe to the environment and free of weed seeds.
- OTTO O.A.S.E. is free of any toxic compounds from compost or animal waste.

## Areas of Application

- Plant hole application for new plantations of trees, bushes as well as reforestations, especially in semi-arid or arid regions.
- Perfectly suited for the remediation of old tree populations.
- Plant bed application for flowers and small bushes.
- Addition to substrata for pot and container plants.
- Improvement of substrata in green houses and cultivated areas.
- Applicable together with green manuring in all agricultural cultures.
- Applicable with corresponding machinery in existing lawns and green areas.
- Applicable in furrows of agricultural cultures (potatoes, tomatoes, cucumbers, melons etc.) to reduce the dosage rate.

## Recommendations for Use

Before starting the usual planting and seeding activities, OTTO O.A.S.E. has to be incorporated evenly into the root area of the plants.

When adding OTTO O.A.S.E. to substrata, an equal and intensive mixing is required.

## Irrigation

Due to the high water storing capacity of OTTO O.A.S.E. the interval between each intensive irrigation period should be extended to obtain optimal soil humidity. For the first application, the humidity of the soil should be controlled frequently to determine the optimal timing for the next irrigation.

Application rate	kg/m <sup>3</sup>	g/m <sup>2</sup> (per 10 -15 cm root zone depth)
For plant substrates:	0.5 – 1.0	---
For sandy soils:	1.5 – 2.0	150-200
For sandy loamy grounds:	1.0 – 1.5	100-150
For loamy grounds:	0.5 – 1.0	50-100

For further detailed information regarding dosage rates and application methods and/or cultures, please contact the address below.

## Packaging

OTTO O.A.S.E. is supplied with the following packaging:

1.5 kg bag

7.5 kg bag

Bulk delivery or Big Bags on request.

OTTO O.A.S.E. is available in the following particle sizes:

0.5 - 2 mm; 2 - 4 mm; 4 – 6 mm; 6 – 12 mm



## Product storage

OTTO O.A.S.E. can be stored under appropriate conditions in closed packaging for up to 3 years. The product must be applied promptly after opening the packaging. OTTO O.A.S.E. should be stored dry and in the shade. Storage temperatures should not exceed +35°C.

## Manufacturer and Sales

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