

PERL HUMUS®

Purely organic soil improver in granulate form

What is humus?

Humus is generated from dead organic substance in the top soil layer in a complex biological process. Humus is the natural base for the fertility and intact structure of a soil and promotes its biological activity. Many soils have a low humus content - only soils with an optimum structure have 4-6% of humus.

The biochemically active substances in humus are its natural humic and fulvic acids. Humic acids function as catalysts of natural processes in the soil. They cause long-term physical improvement of the soil structure and chemical optimisation of the quality of the soil.

The properties of pearl humus:

Pearl humus is a purely organic soil improver produced without addition of chemicals and free of residues, harmful substances or weeds. The humus concentrate contains a strong concentration of natural humic and fulvic acids (81% and 9% each). Pearl humus guarantees an optimum structural improvement and enrichment of the soil with nutrients that can be bound together with a chelating agent and optimally absorbed by the plant's roots. Pearl humus therefore gives your soil long-term fertility and promotes the healthy growth of your plants. Its completely natural composition makes pearl humus a particularly environmentally friendly product.

Pearl humus is produced by WESKO GmbH & Co. KG on the basis of humic soft lignite, a licensed product of RHEINBRAUN AG. It is designed for professional use in agriculture and hobby gardening.

Main ingredients of the granulate are 1/3 of immediately available nutrient humus and 2/3 of high-quality permanent humus, which allows for a natural and long-term provision of nutrients due to its depository qualities. Pearl humus is enriched with organic nutrients, important trace elements and magnesium. The high effectiveness of pearl humus goes back to its active humic acids, whose ion exchange capacities lie around 10-20% above the average level. The favourable pH value of 6.0-6.7 and the low phosphate, potassium, sulphur and salt contents allow for a structural improvement that is easy on both soil and plants.

Pearl humus

- optimises soil structure even in extreme soils: sandy, porous soils are structured so that they store water and nutrients - heavy, clayish soils are loosened and aired, so that plant roots are provided with an optimum amount of air and warmth; mudding and encrusting of the soil surface and soil erosion are prevented.
- activates soil life and creates an ideal space for useful microorganisms.
- increases soil capacities as regards binding water and nutrients and supports air and water households.
- regulates temperature and stabilises soil temperature at 3-4°C during cold periods.
- balances the pH value in the soil and reduces salt binding.
- activates acceptance of vital nutrients in the plant and optimises its photosynthesis performance.
- stimulates root and plant growth, germination rate and fruit growth through natural substances, thereby laying the foundation for increased harvests.
- supports plant resistance and accelerates plant regeneration after relocation or damage.
- increases blossoming and optimises fruit quality: fruits become more aromatic, have a firmer structure and develop a higher vitamin and mineral content.
- intensifies the effects of mineral and organic fertilisers: water-soluble fertilisers are bound in the root area, which prevents them from being washed off into the ground water (this means: reduction of contamination of ground water, e.g. through nitrates) and overfertilising the plant (excess fertiliser is stored in deposits and released gradually, according to the needs of the plant).
- is ideal to supplement compost.

Pearl humus is a multifunctional product that can be used year-round in the most different areas of application. Pearl humus is concentrated in granulates, which makes it handy for transport, productive, easy to use and highly effective.

purpose of application	amount to be used in the root area (depending on soil type)	mode and time of application
greenhouse soils and gardening cultures	3-5 kg per 100 m ²	work in soil-humus mixture during soil preparation
vegetable cultures: herbaceous plantations, rose plantations, flower meadows	2-3 kg per 100 m ²	work in soil-humus mixture during soil preparation, approx. 10-15 cm deep
plant pots and balcony boxes	100g per 10 litres of soil	use soil-humus mixture before planting
seedlings and young plants	2.5-4 kg per 100 m ²	work in pearl humus approx. 6 cm deep
viticulture	150 g per vine	work in soil-humus mixture in the root area in spring and autumn
fruit culture	1.5 kg per tree	add at a ratio of 1:2 to the excavated soil
tree nursery	200g per plant hole	work in soil-humus mixture in the root area in spring
citrus plantation	1 kg per tree	prior to initial planting, work into soil of planting row
strawberries	3-5 kg per 100 m ²	prior to following planting, add to planting rows, mixed with mineral fertiliser
banana plantation	4-5 kg per 100 m ²	use at individual plant in spring, mixed with mineral fertiliser or pure
agriculture (cereal, corn/maize, cotton)	2.5-4 kg per 100 m ²	spread across large areas in spring or autumn prior to soil cultivation, pure or mixed with fertiliser
gardening and land architecture, golf courses, etc.	25 kg per 100 m ²	for new cultivation, work in soil-humus mixture 10-15 cm deep and level the ground with care.

- Pearl humus will significantly improve poor soils when used in combination with a balanced fertilization program.
- Pearl humus works best when minimum daily soil temperatures reach 55°F.
- Used properly Pearl humus will not burn plant material, is non-toxic, and non-staining.