



VTA Biosolit® is an organic activator for wastewater treatment plants. It stimulates the activity of microorganisms in the biocenosis of activated sludge, thus boosting degradation performance significantly.

## COMPONENTS

VTA Biosolit® also contains a readily available, external carbon source for enhanced denitrification.

Furthermore, it effectively combats filamentous bacteria – the main cause of bulking sludge and foam – while fixing sources of intense odors (sulphur compounds). VTA Biosolit® promotes the formation of compact flocs – thanks to an organic, fully bio-compatible charge carrier based on renewable resources. The sludge volume index is significantly improved and sedimentation rate increased.

## THE PERFECT ALL-ROUND SOLUTION

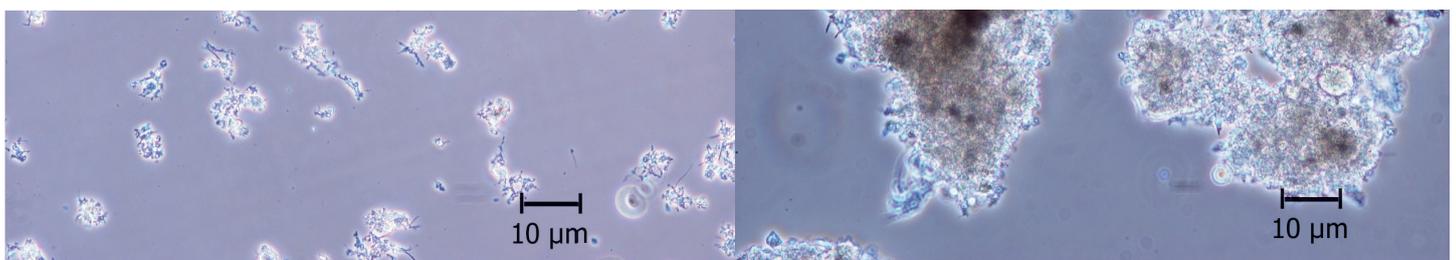
- Phosphate precipitation
- Formation of compact, stable flocs
- Increased sedimentation properties
- Sulphur fixation

## POSITIVE EFFECTS

The calcium fixed in VTA Biosolit® is present in ionic form for immediate availability, ensuring outstanding floc stability. An adequate calcium concentration is crucial for an optimal carbonate balance. If it is not maintained, floc disintegration and sludge overflow can be the consequence. VTA Biosolit® increases buffering capacity and is therefore suitable even for use in soft water.

## ALL-IN-ONE PRODUCT

The sustainability, economy and environmental performance of VTA Biosolit® make it the ideal one-product solution. A further advantage is its ease of handling compared to the dosing of solid materials.





## VTA Biosolit® provides

### PRECIPITATION

- reliable and rapid phosphate precipitation
- increased buffer capacity of the water



### FLOCCULATION

- enhanced sedimentation properties
- optimized carbonate balance for the formation of stable flocs
- control of bulking sludge and scum (suppression of filamentous bacteria)



### BIOLOGICAL ACTIVATION

- stimulation of the biocenosis activity
- enhanced degradation performance
- improved denitrification due to external
- carbon source



### SULPHUR FIXATION

- effective control of powerful odors (caused by sulphur compounds)



### CO<sub>2</sub> BINDING

- VTA Biosolit® binds the CO<sub>2</sub> produced in the biological-degradation process at the wastewater treatment plant so that it cannot escape into the atmosphere.

