

EIP-AGRI practice abstract

Short title:

Struvite from digested sludge and wastewater by "NuReSys" process

Summary:

Uncontrolled struvite formation is a major cause of high maintenance costs and downtime on municipal sludge processing lines especially when combined with biological phosphate removal. The NuReSys technology wants to tackle these operational problems by controlling the struvite process.

The NuReSys struvite crystallization technology can be applied both on digested sludge or post dewatering. The produced struvite, Biostru©, is a pure, contaminant free, product ready for direct reuse or by preference as commodity product to be blended in with other nutrients to obtain an equilibrated nutrient ratio. Nutrient Content (N-P-K %): 5.6 N 12.6 P 0 K - 10 Mg (% w/w). It is a pure crystalline product with non-detectable heavy metal content or well below admitted levels (Zn). Struvite has already been recognized for its slow release properties and has as such been incorporated in successful custom-made fertilizers.

Biostru© can be applied directly and is available for domestic use in 1-10 kg package. Biostru© is also available in bulk to use for blending with other fertilizer to optimise nutrient ratios. It so can be used in conventional farming especially in horticulture. The dose depends on the specific demand of the crop. The current price of the Biostru© varies from 80 to 120 euro/ton.

https://nutriman.net/farmer-platform/product/id_293