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Aerobic granulation -  
Wikipedia

The AquaNereda®

Aerobic Granular  
Sludge Technology is an  
innovative biological  
wastewater treatment  
technology that provides  
advanced treatment  
using the unique  
features of aerobic

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granular biomass. The unique process features of the AquaNereda technology translate into a flexible and compact process that offers energy efficiency and significantly lower chemical consumption.

Aerobic granular sludge-formation mechanism, application ...  
Granular activated

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sludge has gained increasing interest due to its potential in treating wastewater in a compact and efficient way. It is well-established that activated sludge can form granules under certain environmental conditions such as batch-wise operation with feast-famine feeding, high hydrodynamic

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shear forces, and short settling time which select for dense microbial aggregates.

Aerobic Granular  
Sludge Nutrient  
Removal - Aqua-  
Aerobic ...

Aerobic granular sludge (AGS) is a novel microbial community which allows simultaneous removal of

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carbon, nitrogen, phosphorus and other pollutants in a single sludge system.

Guideline for granular sludge reactor design - LEQUIA-UdG

TY - THES. T1 - Aerobic Granular Sludge. T2 - Effect of Substrate on Granule Formation. AU - Pronk, Mario. PY - 2016/4/28. Y1 -



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2016/4/28. N2 -

Discharging untreated wastewater will contaminate the surface waters and can lead to spread of diseases and long term ecological damage.

Aerobic granular sludge technology:

Mechanisms of ...

Recently, aerobic granular sludge

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technology has been scaled-up and implemented for industrial and municipal wastewater treatment under the trade name Nereda®. With full-

## ANAEROBIC GRANULAR SLUDGE - WUR

Aerobic granular sludge exhibited much higher adsorption capacity

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compared to activated sludge and anammox granules. At an ammonium concentration of 30 mg N L<sup>-1</sup>, adsorption obtained with activated sludge and anammox granules was around 0.2 mg NH<sub>4</sub><sup>+</sup>-N gVSS<sup>-1</sup>, while aerobic granular sludge from lab- and pilot scale exhibited an adsorption

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of 1.7 and 0.9 mg  
NH<sub>4</sub><sup>+</sup>-N gVSS<sup>-1</sup>,  
respectively.

## Aerobic Granular Sludge

Context. Proponents of aerobic granular sludge technology claim "it will play an important role as an innovative technology alternative to the present activated

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sludge process in industrial and municipal wastewater treatment in the near future" and that it "can be readily established and profitably used in activated sludge plants". However, in 2011 it was characterised as "not yet established ...

Aerobic Granular  
Sludge - Aqua-Aerobic  
*Page 13/28*

# Download Ebook Aerobic Granular Sludge Systems ...

Aerobic granular sludge is a great process for removing nutrient biologically. Nutrient removal occurs within the layers of the granules, while the higher concentration of sludge allows for more efficient nutrient removal in half the area of activated sludge systems.

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Status of Aerobic  
Granular Sludge  
Technology  
Aerobic Granular  
Sludge Technology  
Technology that  
improves wastewater  
treatment while  
reducing lifecycle costs .  
RoyalHaskoningDHV .  
Activated sludge has  
been a cornerstone of  
wastewater treatment

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since the early 1900s. Over the years, variations of the activated sludge treatment process have surfaced.

AEROBIC GRANULAR  
SLUDGE -  
ResearchGate  
Introduction on Aerobic  
Granular Sludge  
Technology: Webinar  
Special Interest Group



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Sjoerd Kerstens ...

Activated sludge

Aerobic Granular

Sludge 18 . May 30

2017 Aerobic granular

biomass technology

Advantages 19 . May 30

2017 Key advantages

®of Nereda footprint

energy costs

Aerobic Granular

Sludge › TU Delft

Research Information

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Aerobic granular sludge, which features a compact physical structure with a big size, is a novel wastewater treatment process. Compared with activated sludge, it consumes less energy, withstands variable organic loading rates and toxic compounds, requires small footprint,

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separates solid from liquid easily and makes simultaneous carbon and nutrient removal possible.

Aerobic granular sludge : selected proceedings of the 1st ...

Aerobic Granular Sludge Definition

"Granules making up aerobic granular activated sludge are to

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be understood as aggregates of microbial origin, which do not coagulate under reduced hydrodynamic shear, and which subsequently settle ... granular sludge with shock addition of

The mechanisms of granulation of activated sludge in ...  
Stanford Libraries'

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Aerobic Granular  
Sludge Technology for  
Wastewater ...  
Alphenaar, P.A. (1994),  
Anaerobic granular  
sludge:  
characterization, and  
factors affecting its

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functioning. Doctoral thesis, Wageningen Agricultural University, Wageningen, the Netherlands. Many UASB reactors are designed in such a fashion that the presence of granular sludge is necessary for a proper purification process.

Aerobic Granular

*Page 22/28*

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Sludge | TU Delft

Repositories

Aerobic granular sludge (AGS) was developed as a better replacement for activated sludge (AS) and overcoming sludge–water separation issues in the biological treatment of municipal and industrial wastewaters. AGS consists of dense self-immobilized microbial

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granules that have compact microbial structure, ...

Aerobic Granular  
Sludge Technology |  
Endress+Hauser  
Deliverable Title:  
Guideline for granular  
sludge reactor design 3  
1. INTRODUCTION  
1.1. Biological nitrogen  
removal from  
wastewater Due to the



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potential problems that nitrogen compounds can cause in natural resources, effective nitrogen removal in wastewater treatment plants is required. High concentrations of

Aerobic granular sludge process: a fast growing biological ...

Aerobic granular sludge (AGS) is a novel

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microbial community which allows simultaneous removal of carbon, nitrogen, phosphorus and other pollutants in a single sludge system. AGS is distinct from activated sludge in physical, chemical and microbiological properties and offers compact and cost-effective treatment for

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removing oxidized and reduced contaminants from wastewater.

(PDF) Aerobic granular sludge technology:

Mechanisms of ...

Learn all about this new and highly innovative solution for wastewater treatment. Discover the functionality of and (biological) mechanisms behind the Aerobic

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technology and design  
your own AGS  
wastewater treatment  
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