



Granulated Biomass for IC Reactor - Technical specification

Quantity: 250 Mg / 2026

1. Anaerobic activated sludge. Microorganisms forming specific aggregates in the form of granules (not flocs). The structure of the granules is based on calcium, which is dosed in the form of calcium hydroxide to the anaerobic reactor.

The biomass should come from high efficiency UASB reactors ie BIOPAQ®IC (Internal Circulation) or EGSB (Expanded Granular Sludge Bed).

Sludge capacity (reactor load): 15-30 kg COD / m³ x d

2. Composition:

- Dangerous ingredients: there are no
- CAS number: not applicable
- Concentration: 7-14% dry matter
- Pattern: not applicable
- Possible risk: not applicable
- Other components: The catalyst releases some amount of biogas
- The composition of biogas expected during reactor operation:
 - Methane CH₄: minimum 75%
 - Carbon dioxide (CO₂): about 19%
 - Hydrogen sulphide (H₂S): <0.01%
 - Other: water vapor about 6%

3. Transport and loading of granular sludge remain on the side of the supplier. The loading of the BIOPAQ ® IC internal circulation reactor is done via the DN110 fire-fighting connector. The sewage treatment plant is not equipped with a sludge loading pump. The reactor is filled with liquid (24 m) for this reason discharge pressure of the pump (unloaded sludge) should be at least 2.5 barg.
4. Completion/delivery deadline: Deliveries by road tankers. Delivery time within 2 weeks from e-mail call during 2026.
5. Technical conditions for the performance and acceptance of the service/delivery: Certificate, CMR, and WZ. Unloading will be done by the supplying company. On the recipient side – supplying ½ inch of water to meet the supplier's needs.
6. It is required an information what type of sewage was treated by the offered sludge (granulated biomass). Sludge that has worked in similar treatment plants is preferred (chemical, synthetic wastewater, preferably from PTA production).
7. Contact for technical matters:
Piotr Kaniewski
tel. +48 (24) 242-13-92, +48 665 563 970
mail: piotr.kaniewski@anwil.pl

Daniel Sitarz
tel. +48 (24) 202 13 95, +48 607 190 546
mail: daniel.sitarz@anwil.pl