

Data Sheet for basic design based on Mutag BioChip 30™ high-performance carrier media

Your company's name:

Project code / reference:

Please answer items 1. to 8. Red-framed boxes are obligate.

1. What type of biofilm process is required? <i>(Please tick the appropriate box.)</i> <input type="radio"/> MBBR <input type="radio"/> IFAS In case of retrofit for AS stage: TSS in existing tank: <input type="text"/> g/l			
2. Wastewater parameters			
Parameter	Unit	Influent (Design values!)	Required effluent quality
Flow rate	(m ³ /d) (m ³ /h)	<input type="text"/>	<input type="text"/>
Wastewater design temperature	(°C)	<input type="text"/>	<input type="text"/>
pH	(-)	<input type="text"/>	<input type="text"/>
BOD5	(mg/l)	<input type="text"/>	<input type="text"/>
COD	(mg/l)	<input type="text"/>	<input type="text"/>
TSS	(mg/l)	<input type="text"/>	<input type="text"/>
NH ₄ -N (Total ammonium N)	(mg/l)	<input type="text"/>	<input type="text"/>
TKN (Total Kjeldahl N)	(mg/l)	<input type="text"/>	<input type="text"/>
TN (Total N)	(mg/l)	<input type="text"/>	<input type="text"/>
Additional parameters: <i>(please indicate, if necessary)</i>			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Type of wastewater <i>(Please tick the appropriate box.)</i> <input type="radio"/> municipal / domestic <input type="radio"/> industrial Type of industry: <input type="text"/>			
4. Pre-treatment of the wastewater			
4.1 Is there a pre-treatment stage foreseen / existing? <i>(Please tick the appropriate box.)</i> <input type="radio"/> Yes. - Please answer 4.2 and 4.3 -			
<input type="radio"/> No. - Please proceed to 5. and DO NOT answer 4.2 and 4.3 -			

4.2 The influent parameters on the first page refer to...: *(Please tick the appropriate box.)*

- ...the raw wastewater (i.e. upstream of the pre-treatment stage).
- ...the pre-treated wastewater or direct influent to the MBBR stage.

4.3 Type of pre-treatment: *(please indicate; e.g. clarifier / flotation / screen / oil & grease trap, etc.)*

5. **What is the most crucial criteria in the project?**

- Small footprint Low investment costs Low operational costs All of those
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Further important project criteria / Remarks:

6. **What information is supposed to be included in our basic design proposal for your project?** *(Multiple answers admissible.)*

- calculation of the Mutag BioChip 30™ quantity required in total in the project, incl. commercial offer
- calculation of the required active volume of the reaction tank
- (actual) oxygen transfer rate ((A)OTR)