

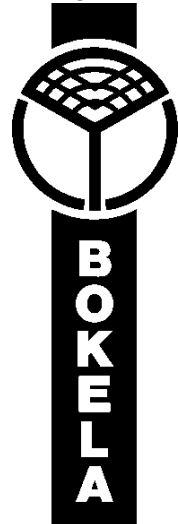
BOKELA

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Questionnaire for Filtration Processes

1. Customer's data

Company: _____ Date: _____

Contact person: _____ Department: _____

Address: _____ Phone: _____

City, ZIP: _____ Fax: _____

State: _____ E-mail: _____

2. Process data

2.1 Short description of the current process (include sketch if necessary)
 (name of the process, stages upstream and downstream of the filtration or separation)

2.2 Filters currently installed:

- make / manufacturer / type of filter: _____
- filtration area (m²) per filter: _____
- number of filters installed: _____
- year of commissioning: _____
- additional remarks: _____
- filter medium: type / material: _____ mesh size: _____ µm
 manufacturer: _____ name: _____

2.3 Current filtration and process conditions:

solids throughput (per filter): current ____ t/h ____ kg/m²h
 aimed ____ t/h ____ kg/m²h

process: continuous
 discontinuous, batch duration: ____ min

moisture content: current ____ %
 aimed ____ %

pressure difference: $\Delta p =$ ____ bar ____ kPa ____ mmHg

cake thickness: ____ mm

filter speed: ____ rpm

cake characteristic: thixotrope abrasive sticky

flocculants: no
 yes, dosage: ____ g/m³
 type: _____

filter aid: no
 yes, dosage: ____ g/m³
 type: _____

Usage of flocculants or filter aid: allowed not allowed

explosion-proof: yes no

3. Which benefit of the Filtration Process may be of interest for you?

	very important	less important	not important
- improved solids throughput	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- lower moisture content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- improved cake washing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- avoidance of particle breakdown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- less solids in the filtrate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- reduced filtrate evaporation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- improved cake discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- less space requirement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- less repairs and maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- others: _____			

4. Separation problem / aimed results

5. Suspension data (filter feed)

solids concentration: $c =$ _____ g/l _____ wt.% _____ Vol.%
 volume throughput: current (per filter): _____ m³/h _____ m³/m²h
 aimed (per filter): _____ m³/h _____ m³/m²h
 temperature: normal: _____ °C maximum: _____ °C

5.1 Suspension liquor / filtrate

name: _____
 chemical composition: _____
 liquid density: _____ g/cm³ (at T = _____ °C)
 pH value: _____
 max. allowed solids content in the filtrate: _____ g/l
 additional remarks (e.g. viscosity): _____

5.2 Solids material / filter cake / concentrate

name: _____
 chemical / mineralogical composition: _____
 solids density: _____ g/cm³ (at T = _____ °C)
 particle size: $x_{10} =$ _____ μm $x_{50} =$ _____ μm $x_{80} =$ _____ μm
 particle shape: _____
 particle characteristics: gel-like amorphous
 crystalline fibrous
 decomposition temperature: T = _____ °C
 additional remarks: _____

5.3 Washing procedure

- washing liquor
 - temperature: _____ °C
 - type: _____
- washing liquor consumption
 - total (per filter) _____ m³/h
 - specific: _____ m³/t

washing liquor distribution /washing procedure (short description):

6. Handling of suspension / solids / liquid

- any special instructions for handling? yes no
- will safety data sheet be handed over? yes no
- is the suspension ageing? yes no
- maximum storage time without changes in product characteristic (e.g. x₅₀)? _____ days
- additional remarks: _____

7. Questions / additional remarks

(e.g. experiences with lab filters, flocculants, features, desired time schedule, etc.):

Your data will be treated strictly confidential.
 In case you have any further questions, please do not hesitate to contact us.
 Our team will be readily at your disposal. Thank you for your efforts.