



## Technical Question Form

Firm: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Department: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Contact person: \_\_\_\_\_ Telefax: \_\_\_\_\_

### Before Separation:

#### Description of the product to be handled:

Rate per day: \_\_\_\_\_ m<sup>3</sup>/d \_\_\_\_\_ kgd.s./d  
 Rate per hour: \_\_\_\_\_ m<sup>3</sup>/h \_\_\_\_\_ kgd.s./h  
 Operating hours per day: \_\_\_\_\_ h/d  
 pH-value: \_\_\_\_\_ -  
 Operating temperature: \_\_\_\_\_ ° C max. adm.: \_\_\_\_\_ ° C  
 Density of feed (suspension): \_\_\_\_\_ kg/m<sup>3</sup>  
 Percentage of solids (total): \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l  
 Percentage of solids (solubles): \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l  
 Percentage of solids (insolubles): \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l  
 Residue on ignition (determined at \_\_\_\_\_ ° C): \_\_\_\_\_ % by wt.  
 Sand contents: \_\_\_\_\_ % by wt.  
 Sludge index: \_\_\_\_\_ ml/g

#### Description of solids

Density \_\_\_\_\_ kg/m<sup>3</sup>  
 Particle size distribution:  
 \_\_\_\_\_ μm  
 \_\_\_\_\_ μm  
 \_\_\_\_\_ μm  
 \_\_\_\_\_ μm  
 Average particle size ( $c_{50}$ ): \_\_\_\_\_  
 Particle shape (eg. spherical amorphous, etc.): \_\_\_\_\_  
 Type of solids (eg. fibrous, crystalline, etc.): \_\_\_\_\_

#### Description of the liquid:

Density: \_\_\_\_\_ kg/m<sup>3</sup>  
 Dynamic viscosity (at operating temperature): \_\_\_\_\_ Pa . s at \_\_\_\_\_ ° C

#### For 3-phase-mixtures (e.g. mixture oil-water-solids):

##### Description of the light phase (e.g. oil):

Percentage: \_\_\_\_\_ % by wt. \_\_\_\_\_ % by vol.  
 Density: \_\_\_\_\_ kg/m<sup>3</sup>  
 Dynamic viscosity (at operating temperature): \_\_\_\_\_ Pa . s at \_\_\_\_\_ ° C

##### Description of the heavv phase (e.g. water):

Percentage: \_\_\_\_\_ % by wt. \_\_\_\_\_ % by vol.  
 Density: \_\_\_\_\_ kg/m<sup>3</sup>  
 Dynamic viscosity (at operating temperature): \_\_\_\_\_ Pa . s at \_\_\_\_\_ ° C

**After Separation:**

**For 2-phase mixtures:**

- Requested solids-/sludge contents in discharge: \_\_\_\_\_ % by wt.
- Admissible solids contents (insolubles) in effluent: \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l
- Solids recovery: \_\_\_\_\_ %

**For 3-phase mixtures:**

- Admissible contents on light phase in solids-/sludge discharge: \_\_\_\_\_ % by wt.
- Admissible contents on heavy phase in solids-/sludge discharge: \_\_\_\_\_ % by wt.
- Admissible solids contents (insoluble) in light phase: \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l
- Admissible contents on heavy phase in light phase: \_\_\_\_\_ % by wt.
- Admissible solids contents (insolubles) in heavy phase: \_\_\_\_\_ % by wt. \_\_\_\_\_ g/l
- Admissible contents on light phase in heavy phase: \_\_\_\_\_ % by wt.

May substitutes (flocculants, de-emulsifiers, etc.) be used?  yes  no

Is ex-proof equipment necessary?  yes  no

Necessary precautions, danger name of product:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments (eventual former lab test, seasonal fluctuations, medium-term increase of capacity, special material, etc):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Place, Date

\_\_\_\_\_  
Stamp, Signature

