



# THE FILTER

**Questionnaire**

## **FILTER SPARE PARTS**

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## Questions regarding product

1.0. Describe liquid phase of the liquid to be filtered  
(chemical or technical description):

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2.0. Describe solids which have to be removed?  
(chemical or technical description):

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3.0. Is the liquid

<input type="checkbox"/> acid		Yes	No
<input type="checkbox"/> neutral	toxic	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> alkaline	danger of expl.	<input type="checkbox"/>	<input type="checkbox"/>

pH value if known: \_\_\_\_\_

4.0. If the liquid is acid, describe acids:

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4.1. If the liquid is basic, describe bases:

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5.0. State viscosity:

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5.1. at filtration temperature

\_\_\_\_\_ Cps \_\_\_\_\_ °C

5.2. at room temperature

\_\_\_\_\_ Cps \_\_\_\_\_ °C

6.0. State specific gravity of the product to be filtered:

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6.1. State bulk density of cake

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7.0. State percentage (ratio) solid/liquid:

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7.1. weight %

\_\_\_\_\_ / \_\_\_\_\_

7.2. volume %

\_\_\_\_\_ / \_\_\_\_\_

7.3. or g/l

\_\_\_\_\_ / \_\_\_\_\_

8.0. Are the solids:

crystalline  
 crumbly  
 slimey  
 sticky  
 pasty  
 hygroscopic

9.0. Average particle size:

\_\_\_\_\_ micron  
\_\_\_\_\_ micron min. \_\_\_\_\_ %  
\_\_\_\_\_ micron max. \_\_\_\_\_ %

10.0. Sedimentation speed:

\_\_\_\_\_ cm/min.

## Questions regarding process

- 11.0. Is your process  continuous  
 or batch
- 12.0. How big is one batch? \_\_\_\_\_ m<sup>3</sup>
- 12.1. How many batches per 24 h ? \_\_\_\_\_
- 12.2. State time span in which a batch has to be filtered: \_\_\_\_\_
- 13.0. If operation is continuous, how many? \_\_\_\_\_ m<sup>3</sup>/h,  1 shift,  2 shifts  3 shifts
- 14.0. State temperature at which you wish to filter \_\_\_\_\_ °C
- 15.0. Is the purpose of your filtration to obtain:  
 a clear filtrate  
 recovery of the residue  
 both
- 16.0. Must you wash residue in the filter?  Yes  No
- 16.1. if yes, state wash medium \_\_\_\_\_
- 16.2. at which temperature? \_\_\_\_\_ °C
- 17.0. Must you change discharge filter residue?  
 as a slurry  
 as a dry cake with  
how many moisture? \_\_\_\_\_ %  
 as paste
- 18.0. If you discharge residue as a dry cake,  
do you want to dry?  
 with air  
 with inert gas  
 with steam
- 18.1. at which temperature? \_\_\_\_\_ °C

## Questions regarding your process used up to now or possible tests

- 19.0. Describe type of filter which has been used for this brand purpose up to now.  
Which type \_\_\_\_\_  
Which size \_\_\_\_\_  
screens \_\_\_\_\_
- 20.0. Do you precoat your filter?  
20.1  Yes  No  
if yes:  
 with diatomaceous earth  
state type \_\_\_\_\_  
 with cellulose  
state type \_\_\_\_\_  
 with activated carbon  
state type \_\_\_\_\_  
 \_\_\_\_\_
- 21.0. Do you use bodyfeed?  Yes  No
- 22.0. State the specific filtration rate in your existing filter? \_\_\_\_\_ m<sup>3</sup>/m<sup>2</sup>/h
- 22.1. or obtained during tests  
(Volume/square meters filter area/hour) \_\_\_\_\_ m<sup>3</sup>/m<sup>2</sup>/h
- 23.0. State the delta p in your existing filter \_\_\_\_\_ bar at \_\_\_\_\_ mm cake thickness

## Questions regarding material of construction and accessories

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24.0. Which materials do you think can be considered for the construction of the filter taking account of your product?

\_\_\_\_\_

24.1. Which materials cannot be used?

\_\_\_\_\_

24.2. Which material is most suitable for the filter screens?

\_\_\_\_\_

24.3. Which sealing material is most suitable?

\_\_\_\_\_

24.4. According to which code does the filter have to be built?

\_\_\_\_\_

**If the questions under 19.0 to 24.3 cannot be answered sufficiently, we have to carry out tests.  
For this purpose we need a representative sample.**

25.0. Who is furnishing the following parts:

	Client:	FSP:
precoat vessel	<input type="checkbox"/>	<input type="checkbox"/>
body feed vessel	<input type="checkbox"/>	<input type="checkbox"/>
precoat pump	<input type="checkbox"/>	<input type="checkbox"/>
body feed pump	<input type="checkbox"/>	<input type="checkbox"/>
filtration pump	<input type="checkbox"/>	<input type="checkbox"/>
valves	<input type="checkbox"/>	<input type="checkbox"/>
pipings	<input type="checkbox"/>	<input type="checkbox"/>
residue discharge valve	<input type="checkbox"/>	<input type="checkbox"/>

26.0. Do you wish the installation to be:

manual	<input type="checkbox"/>	<input type="checkbox"/>
semi-automatic	<input type="checkbox"/>	<input type="checkbox"/>
fully-automatic	<input type="checkbox"/>	<input type="checkbox"/>

Exact address:

Company \_\_\_\_\_

Department \_\_\_\_\_

Name \_\_\_\_\_

Street \_\_\_\_\_

Zip, Place, Country \_\_\_\_\_

Telephone \_\_\_\_\_

Telefax \_\_\_\_\_

E-Mail \_\_\_\_\_

Name of project engineer: \_\_\_\_\_

Handled by: \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_