

SOLID LIQUID SEPARATION QUESTIONNAIRE

Company: _____
 Address: _____
 Filled in by: _____
 Date: _____ Project: _____
 Phone: _____ Fax: _____

Product / Suspension:
 Temperature: _____ °C (norm.) _____ °C (max.) _____ °C (min.)
 pH: _____ Density: _____ g/cm³

Liquid phase:
 Liquid viscosity: _____ cPs _____ °C Density: _____ g/cm³

Solids phase:
 Solids content: _____ % w/w _____ % v/v _____ g/L
 Sedimentation speed: _____ cm / sec. Density: _____ g/cm³
 Particle size (microns): _____ max. _____ average _____ min.

Nature of solids: crystalline colloidal thixotropic hygroscopic abrasive

Crystal shape: _____ Bulk density of cake: _____ kg dry matter per L of wet cake
 Soluble in: _____ solubility: _____ g/L at °C Melt temp. °C

Product in solution: _____ g/L Toxicity: _____ Flammability _____
 Crystallization temp.: _____ °C Solubility in wash liquid: _____ g/L at °C

Production: continuous _____ m³/h _____ hours/ day
 batch wise _____ m³/batch _____ batches/ day

Desired total cycle time for batch filtration: _____ minutes _____ minutes filtration time

Process information
 Suspension is coming from: _____
 Filtrate goes to: _____
 Solids go to: _____

Is it possible to return the heel volume and filter with the next batch? yes no
 Must filter cake be washed ? yes no
 if yes, with what? _____ temperature °C:
 to meet which criteria? _____ or wash ratio: _____ vol. / vol. of cake

Desired solids discharge: as thickened slurry at which solids content: (%w/w) _____
 as slurry by back washing liquid for backwash: _____
 as dry cake at which solids content: (%w/w) _____

Cake drying with: Air _____ Nm³/h at _____ barg
 Nitrogen _____ Nm³/h at _____ barg
 Steam _____ kg/h at _____ barg

Additional information: _____

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Quality comes with Commitments
An ISO 9001:2008 Certified company

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Type of filter used up until now: _____ **Brand:** _____

Size (m2): _____ **No. of units:** _____ **Capacity:** _____ m3/h

Do you precoat your filters? yes no if yes, with what? _____ kg/m2

Do you use body feed? yes no if yes, with what? _____ g/L

differential pressure: _____ barg cycle time: _____ minutes

cake thickness: _____ mm cake solids: _____ % w/w

Construction Construction code: _____

<u>Recommended materials</u>	<u>Vessel</u>	<u>grade</u>	<u>Jacket</u>	<u>Vessel</u>	<u>lining</u>	<u>coating</u>
carbon steel	<input type="checkbox"/>		<input type="checkbox"/>	Hard rubber	<input type="checkbox"/>	
stainless steel	<input type="checkbox"/>	1.4435 / ss 316 L	<input type="checkbox"/>	PVDF		<input type="checkbox"/>
stainless steel	<input type="checkbox"/>	1.4571 / ss 316 Ti	<input type="checkbox"/>	Teflon® FEP	<input type="checkbox"/>	
stainless steel	<input type="checkbox"/>	1.4539 / ss 904 L	<input type="checkbox"/>	ECTFE (HALAR®)		<input type="checkbox"/>
Titanium	<input type="checkbox"/>			Glass	<input type="checkbox"/>	
other materials	_____			other materials	_____	

special construction req.: _____

Jacket required on cylinder: yes no Jacket on cone: yes no Jacket on cover: yes no

Jacket pressure / temp.: _____ barg / °C Insulation supports: yes no

<u>Recommended materials for</u>	<u>Internals</u>	<u>grade</u>	<u>Filter media</u>
stainless steel	<input type="checkbox"/>	1.4571 / ss 316 Ti	PP (Polypropylene) <input type="checkbox"/>
stainless steel	<input type="checkbox"/>	1.4539 / ss 904 L	PVDF (Polyvinylidenfluoride) <input type="checkbox"/>
PP	<input type="checkbox"/>	Polypropylene 20% GF	PTFE (Polytetrafluorethylene) <input type="checkbox"/>
PVDF	<input type="checkbox"/>	Polyvinylidenfluoride	PPS (Polyphenylensulfide) <input type="checkbox"/>
PPS	<input type="checkbox"/>	Polyphenylensulfide	others _____

Plant informations: Control air : _____ barg Electric power: _____ V/Hz

Ex-protection required? yes no If yes, which type _____

other informations: _____

Scope of supply:

<input type="checkbox"/> Filter	<input type="checkbox"/> Valves	<input type="checkbox"/> Instruments	<input type="checkbox"/> Piping
<input type="checkbox"/> Control system	<input type="checkbox"/> Flowsheet and sequence	<input type="checkbox"/> Complete skid	