## CAKESEP QUESTIONNAIRE for SOLID LIQUID SEPARATION



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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.				g/cm3
Particle size (microns):	-	max.		average		min.
Nature of solids:	crystalline	colloidal	thixotropic	hygroscop	ic 🗌 abrasive	- )
Crystal shape:		Bulk	density of cake:		kg dry matter	per L of wet cal
Soluble in:		solubility:		g/L at °C	Melt temp. °C	
Product in solution:		g/L	Toxicity:	<del>-</del> :	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 filtra	tion time
Process information			_		_	
Suspension is coming from:						
Filtrate goes to:						
Solids go to:						
Is it possible to return the heel	volume and filte	r with the next	batch?	yes	no	
Must filter cake be washed?	•			☐ yes	_ □ no	
if yes, with what?	•			te	emperature °C:	
to meet which criteria?			_	or wash ratio:		ol. / vol. of cake
Desired solids discharge:	as thickened slu as slurry by bacl			at which solid	s content: (%w.	/w)
		as dry cake		at which solid	s 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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Type of filter used up until now	<i>י</i> :			Brand:			
Size (m2):	No. of units:		nits:	Capacity:		m3/h	
Do you precoat your filters?	yes	no	if yes, with wh	at?		kg/m2	
Do you use body feed?	□ yes	☐ no	if yes, with wh	at?		g/L	
differential pressure:		barg		cycle time:		minutes	
cake thickness:		mm		cake solids:		% w/w	
-				_			
Construction	Construction	n code:					
Recommended materials	<u>Vessel</u>	grade	Jacket	<u>Vessel</u>	lining	coating	
carbon steel		4 4425 /		Hard rubber			
stainless steel		1.4435 / ss		PVDF		Ш	
stainless steel stainless steel	님	1.4571 / ss 1.4539 / ss		Teflon® FEP	Ш		
Titanium		1.4339 / 55	904 L	ECTFE (HALAR®) Glass		Ш	
other materials				other materials	Ш		
special construction req.:				_			
Jacket required on cylinder:		a lacket on	cone: ves	no Jacket on cover			
Jacket pressure / temp.:	yes no	barg / °C	_, _	sulation supports:	i yes  no yes  no		
Jacket pressure / temp		baig / C		satation supports.			
Recommended materials for:	Internals	grade				<u>Filter media</u>	
stainless steel		1.4571 / ss	316 Ti	PP (Polypropyle	ne)		
stainless steel		1.4539 / ss	904 L	PVDF (Polyvinyli	idenfluoride)		
PP		Polypropylene	20% GF	PTFE (Polytetra	fluorethylene)		
PVDF		Polyvinyliden	fluoride	PPS (Polyphenyl	ensulfide)		
PPS		Polyphenyler	sulfide	others			
Plant informations:	Control a	ir:	barg	Electric power:		V/Hz	
Ex-protection required?	☐ yes	☐ no	If yes, which	type			
other informations:							
Scope of supply:	Filte	r 🗌 Valves	ves				
	☐ Contro	☐ Control system ☐ Flowsheet and sequence ☐ Complete skid					