



QUESTIONNAIRE EVAPORATION-TECHNOLOGY

By a complete filled in questionnaire you will help us to evaluate your application and the execution of pilot trials with product in our test center.
All information submitted will be treated confidentially.

Product / Project :

(Key words)

Application: Degassing Evaporation Recovery

Must your product or application be treated in strict confidence: yes no

Company's name:

Department:

Address:

Person in charge of the project:

Phone no:

Fax no:

E-mail:

Date:

Signature:

1. Feed

- 1.1 Name of product
- 1.2 Concentration of highboilers.....in wt.%, concentration of lowboilers.....in wt.%
For multi-component mixtures indicate composition on the chart "Physical data"
(refer to page 5).
- 1.3 It is a solution emulsion suspension
- 1.4 Does any precipitation occur during the evaporation process? yes no
- 1.5 Is it possible that 2 liquid phases may form? yes no
- 1.6 Does the product foam? yes no
- 1.7 Does the product form deposits on the heating surface? yes no
- 1.8 At what temperature is the product available? °C
- 1.9 What is the valuable product? the distillate the concentrate

2. Distillate

- 2.1 Required yield (with regard to the lowboilers.....)
- 2.2 Allowable residual content of highboilers wt.%
For multi-component mixtures indicate composition on the chart "Physical data"
(refer to page 5).
- 2.3 Do you prefer co- or countercurrent flow of the vapor in respect to the highboilers?
.....

3. Bottom product

- 3.1 Required concentration of highboilers wt.%
- 3.2 Allowable residual content of lowboilers wt.%
For multi-component mixtures indicate composition on the chart "Physical data"
(refer to page 5).
- 3.3 Property of bottom product
 pure liquid
 slurry

4. Operating conditions of the planned installation

4.1 Throughput Feed kg/h, Distillate kg/h, Bottom product kg/h

4.2 Operating hours per day ?

4.3 Proposed operating pressure: Vacuum mbar, pressure barg

Type of desired vacuum pump (steam ejector, water ring pump etc.)?
.....
.....

4.4 Special requirements for the different components e.g. colour, transparency, electric conductivity, odor, etc.)
.....
.....

4.5 Available heating medium Type Max. temp.°C

If saturated steam available, which pressure barg

4.6 Electricity

.....Volt;Phases; Cycles

4.7 Cooling water quantity available: m³/h

Quality

Are fouling factors known?m²K/W

Temperature in summer°C; in winter °C

5. General information

- 5.1 Construction material of our standardized evaporators is stainless steel DIN 1.4404 (316L) for parts in contact with product. Does this meet your requirements? yes no
 If not, which material is recommended
- 5.2 Which materials are suitable for seals/gaskets?
- 5.3 What height is available for the erection of the installation?
- 5.4 Is the existing process continuous? or batchwise?
 In what type of equipment?
 Under which conditions?
 What is the desired improvement?

- 5.5 Do you need a detailed complete or budget quotation?
- 5.6 Is a quotation required for a complete installation?
 for the thin film evaporator only?
- 5.7 Special remarks

Composition

Component	Name	Formula	wt. %	Feed	Distillate	Bottom product
A			%			
B			%			
C			%			
D			%			
E			%			

	Unit	Feed	Distillate	Bottom product	Component				
					A	B	C	D	E
Molecular weight	kg/kmol								
Specific weight	kg/m ³								
Specific heat	kJ/kg K								
Heat conductivity	W/m K								
Viscosity °C	mPas							
 °C	mPas							
 °C	mPas							
 °C	mPas							
Boiling Temperature	1013 mbar	°C							
	500 mbar	°C							
	100 mbar	°C							
	10 mbar	°C							
	1 mbar	°C							
Melting point	°C								
Latent heat	t °C	kJ/kg							
	t °C	kJ/kg							
	t °C	J/kg							

Is the product non-dangerous toxic caustic inflammable explosive?

Flash point °C

Ignition temperature °C

Ex-protection

Safety data sheet No. for component:

A:

B:

C:

D:

E:

Process data Evaporation Technology

