

Questionnaire

Evaporation Technology

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Or send an e-mail to
sales@sms-vt.com

General information

Project title / Keyword:

Client / Address:

End-client / Address:

Contact person:

Phone:

Email:

Motivation of the project:

.....

Project status and schedule:

.....

Installation site:

Quotation request: Feasibility Study Budget Offer Detailed Offer

Feed

Name of product:

Concentration of highboilersin wt.%, concentration of lowboilersin wt.%

For multi-component mixtures indicate composition on the chart „Component properties“ (see page 4)

It is a solution emulsion suspension

Does any precipitation occur during the evaporation process? yes no

Does the product foam? yes no

Does the product form deposits on the heating surface? yes no

At what temperature is the product available? °C

What is the valuable product? the distillate the concentrate

Distillate

Required yield (with regard to the lowboilers) wt.-%

Allowable residual content of highboilers wt.-%

For multi-component mixtures indicate composition on the chart „Component properties“ (see page 4).

Bottom product

Required concentration of highboilers wt.-%

Allowable residual content of lowboilers wt.-%

For multi-component mixtures indicate composition on the chart „Component properties“ (see page 4).

Property of bottom product

pure liquid slurry

Is a maximum temperature of the bottom product to be considered? °C

Operating conditions of the planned installation

Throughput quantity:

Feed kg/h, distillate kg/h, bottom product kg/h

Operating hours h/day

Proposed process product operating pressure:

Vacuum mbar abs. Overpressure barg

How should the vacuum be generated? (steam ejector-, water ring-, dry running vacuum pump, etc.)

Available utilities

Steam: Pressurebarg Temperature°C

Heat transfer oil: Type Supply temperature°C
 Hot water: Supply temperature°C
 Cooling water: max. supply temperature°C
 Chilled medium: Type max. supply temperature°C
 Electricity: Voltage.....V Frequency.....Hz

Further information

Standard construction material of our evaporators is stainless steel 1.4404 / 316L for product wetted parts.

Does this meet your requirements? yes no

If not, which material is recommended?

Which materials are suitable for seals/gaskets?

What space is available for the erection of the installation?

Length (m) Width (m) Height (m)

Is there any information about the process available? (existing plants / trials / process simulations)

.....

Special remarks

.....

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

Component properties										
		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								
Boiling temperature	1013 mbar	°C								
	500 mbar	°C								
	100 mbar	°C								
	10 mbar	°C								
	1 mbar	°C								
Melting point		°C								
Evaporation heat °C	kJ/kg								

Is the product

non-dangerous toxic caustic inflammable explosive?

Flash point °C

Ignition temperature °C

Ex-Protection and zone specification

Date: Signature