

Questionnaire

Drying Technology

General information

Product / project title / keyword:

Company:

Address:

.....

Contact person:

Department:

Phone:

Email:

Date:

Signature:.....

Information about the drying task

Product:

Valuable product:
(e.g. solids, solvents)

Aim of drying:
(e.g. reduction of a waste stream, solvent recovery)

Desired feed rate into the dryer (kg/h).....

Composition:			
	Solid	Solvent	Others
Name			
Chemical formula			
Weight-% in wet product			
Desired weight-% in dry product			

Information about wet product, dry product, and distillate

Form of wet product:
(e.g. liquid, pasty, moist powder)

Suitable conveyor for wet product:
(e.g. pump, screw conveyor with single or double shaft)

Special requirements for the dry material:.....
(e.g. fine powder, granules).

Special requirements for the distillate:.....
(e.g. required purity)

Information and experience on drying behavior

Are the products temperature-sensitive? Yes No

Permissible product temperatures for some

Seconds: °C Minutes: °C Hours: °C

If the product has already been dried, please describe the process:
(Dryer type, method, process parameters)

.....

Problems with the previous process:

Further experiences on drying behavior:

Information on the material properties

Particular hazards due to substances involved in the process:
 (e.g. toxic, explosive)

Solid:

Solvent:

Others:.....

If yes, please attach a material safety datasheet.

Available physical properties of the components involved in the process:			
	Solid	Solvent	Other
Name			
Molar mass kg/kmol			
Specific heat capacity kJ/(kg K)			
Enthalpy of evaporation kJ/kg			
Boiling temperature at 1 bar °C			
Boiling temperature at mbar °C			
Melting point °C			
Decomposition point °C			

Further relevant information on the substances and their properties:

.....

Other information

Can the product be made available for laboratory or pilot testing?

Yes No

Special requirements regarding the materials of construction to be used:

.....

Further comments / remarks:.....

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