

Reactor technology questionnaire

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General company information

Company name:

Address:

Country:

Department:

Contact person:

Phone no.:

E-mail:

Homepage:

Project name:

Form of input product

Fluid

Pourable

Pumpable

Pasty

Set

Sticky

Clumpy

Crumbly

Free-flowing

Powdery

Abrasive

Corrosive

Substance data for solids

Product

Specific heat capacity KJ/KgK

Permissible temperature °C

Range of particle sizes

Substance data for liquids

Designation:

Specific heat capacity in kJ/kgK:

Vaporization enthalpy in kJ/kg:

Permissible temperature in °C:

Input moisture in %:

Bulk density in kg/m³:

Viscosity in mPas:

Input temperature in °C:

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End product

End moisture in %:

Bulk density in kg/dm³:

Permissible product temperature in °C:

Product behavior during the reaction

Reaction temperature in °C:

Reaction heat in kJ/mol:

	Yes	No
Is an explosion to be expected? If yes, why?	<input type="radio"/>	<input type="radio"/>
Does a pronounced toughening phase occur during the reaction? If yes, why?	<input type="radio"/>	<input type="radio"/>
Does solidification occur during the reaction?? If yes, why?	<input type="radio"/>	<input type="radio"/>
Are agglomerations expected to form?	<input type="radio"/>	<input type="radio"/>
Particular features of the reaction:		

Drying behavior (if necessary)

	Yes	No
Does a pronounced toughening phase occur during the drying process? If yes, in which moisture range? wt.-% to wt.-%	<input type="radio"/>	<input type="radio"/>
At which moisture level does the material become free-flowing? wt.-%		
Are agglomerations expected to form?	<input type="radio"/>	<input type="radio"/>
Is a dryer already being used for this product? If yes, which type of dryer?	<input type="radio"/>	<input type="radio"/>

Explosion protection

	Yes	No
Is there an explosive atmosphere?	<input type="radio"/>	<input type="radio"/>
Internal explosion zones:		

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Explosion protection continued

External explosion zones:

Temperature classes:

Operating data

Design pressure:

Machine material: NSt 1.4301 (SS 304) 1.4404/1.4571 (SS 316 L) Other:

Surface specification:

Project information

Starting point (existing system, new system, etc.):

Investment goals (reduce costs, replacement investment, fulfil environmental protection measures, etc.)

Total project volume:

Mixing/drying technology project volume:

Project stage: Cost estimate Pre-project Budget approved

Implementation period:

Specific requests:

Place/date:

Signature/filled in by:

Send to BHS-Sonthofen via e-mail