

Gebr. Lödige Maschinenbau GmbH Elsener Str. 7 - 9 D - 33102 Paderborn	Phone: +49 5251 309-0 Fax: +49 5251 309-123 E-Mail: info@loedige.de	<h2 style="margin:0;">Questionnaire</h2>
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Company / Contact Phone: Fax: E-Mail:	<input type="checkbox"/> Existing machine Make / type: Machine No.: <input type="checkbox"/> New product <input type="checkbox"/> New process <input type="checkbox"/> Replacement / exchange
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Process: <input type="checkbox"/> Mixing dry <input type="checkbox"/> Granulation <input type="checkbox"/> Reaction <input type="checkbox"/> Dispersion <input type="checkbox"/> Pyrolysis <input type="checkbox"/> Drying <input type="checkbox"/> Mixing moist <input type="checkbox"/> Liquefaction <input type="checkbox"/> Tempering <input type="checkbox"/> Coating <input type="checkbox"/>	
Characteristics of the final product (Raw material properties on p.2) <input type="checkbox"/> Dry <input type="checkbox"/> Moist <input type="checkbox"/> Dust-free <input type="checkbox"/> Powdery <input type="checkbox"/> Free-flowing <input type="checkbox"/> Liquid, pumpable <input type="checkbox"/> Pasty, sticky <input type="checkbox"/> Granulate, agglomerate	Is product build up to be expected? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Strong <input type="checkbox"/> Medium <input type="checkbox"/> Weak <input type="checkbox"/> Rigid <input type="checkbox"/> Adhesive <input type="checkbox"/> Loose <input type="checkbox"/> Setting / curing <input type="checkbox"/> Easily removable <input type="checkbox"/> Difficult to remove
Production process <input type="checkbox"/> Manual <input type="checkbox"/> Batchwise <input type="checkbox"/> Automatic <input type="checkbox"/> Continuous	Required Performancekg / h Batch sizekg / batch Possible number of cyclesBatch / h Working hoursh / day.....h / year

Recipe / Product composition																						
No.	Designation	powdery	dusty	pasty	slightly moist	muddy	crystalline	lumpy	hygroscopic	easy flowable	adhesive	fibrous	sticky	liquid	Part in recipe [wt. %]	Bulk Density [kg/l]	Particle size			Visc. [MPas]	Humidity [%]	
																	Min [µm]	Medium [µm]	Max [µm]			
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Quality criteria with respect to final product:

What analytical methods should be used for quality assessment?

To be completed in case of trials:

Contact person
 E-Mail ✉.....
 Phone ☎.....

All information provided on this form will be kept strictly confidential.

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Details of the process	
Is a size reduction of the product allowed during processing?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does an adhesive phase occur during the processing?	<input type="checkbox"/> Yes <input type="checkbox"/> No
What is the pH value of the initial product?
Are the products explosive, flammable and / or toxic?
Is gas / vapour released during the reaction / drying?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Heat of reaction of the process?	<input type="checkbox"/> none <input type="checkbox"/> endothermic <input type="checkbox"/> exothermic
Initial humidity [wt. %]
Desired final humidity [wt. %]
What is the maximum allowable product temperature?	Dry °C Humid °C
What is the maximum allowable product discharge temperature? °C
Desired size of granulate / agglomerate µm

Technical specification	
Material: Product-contact parts Outside parts Design pressure bar g Design temperature °C Pressure vessel regulation (DGRL, ASME etc.) 	<input type="checkbox"/> Stainless steel <input type="checkbox"/> Mild steel <input type="checkbox"/> Lining: <input type="checkbox"/> Material No. <input type="checkbox"/> blasted <input type="checkbox"/> polished <input type="checkbox"/> painted
Product feed No. of feed ports:	Electrical equipment / cabinet Control cabinet <input type="checkbox"/> included <input type="checkbox"/> by customer
Product discharge Door <input type="checkbox"/> Manual <input type="checkbox"/> Pneumatic Ball valve <input type="checkbox"/> <input type="checkbox"/>	Operating voltage V Control voltage V Valve voltage V Frequency Hz Protection IP.....
Explosion protection / ATEX <input type="checkbox"/> Dust <input type="checkbox"/> Gas / Vapour	

Utilities			
Energy source for	Inlet temperature [°C]	Pressure [bar]	
	Water		
Heating	Steam		
	Thermal oil		
Cooling	Water		
	Brine		

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