

Inquiry No. / Quotation No.		To be filled in by ystral	Representative	
Object No.			Date	
Customer No.			Report No.	

	Customer Process Questionnaire End product / Components	Page 1 of 2
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▶ Customer		▶ Name	
▶ Address		▶ Div./Fct.	
		▶ Tel.	
		▶ Email	
		▶ Fax	

Which end product do you want to produce?

▶ Description		▶ Is the product abrasive?	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Strong	<input checked="" type="checkbox"/> Weak
▶ Quantity		▶ Has the product the tendency to foam?	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Strong	<input type="checkbox"/> Weak
▶ Normal process temp.		▶ Is the end product sticky or lumpy?	<input type="checkbox"/> No	<input type="checkbox"/> Yes		
▶ Max. Permissible temp.		▶ What particle size and/or particle size distribution do you want to reach in the end product?				
▶ Max. viscosity at temperature						
▶ Measuring method						
▶ Spec. Weight						

Which components are to be treated?

1) Information about the basic liquid (initial conditions)

▶ Description					
▶ Quantity		kg		Ltr.	
▶ Temperature				°C	
▶ Flows like					
	▶ Viscosity			mPas (=cP)	
	▶ Spez. Spec. weight			kg/dl/dm³	

2) Information about further liquid components

▶ Description												
▶ Quantity		kg		Ltr.		kg		Ltr.		kg		Ltr.
▶ Adding temperature				°C				°C				°C
▶ Adding viscosity				mPas (=cP)				mPas (=cP)				mPas (=cP)

3) Information about solid/powder components

▶ Description															
▶ Quantity				kg				kg				kg			
▶ Bulk density				kg/dm³				kg/dm³				kg/dm³			
▶ Does the solid/powder have the ability to flow?	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Good	<input type="checkbox"/> Bad	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Good	<input type="checkbox"/> Bad	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Good	<input type="checkbox"/> Bad			
▶ Has the solid/powder the tendency to create dust?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes			
▶ What is the initial particle size of the solids/powder?	Primary grain				mm	Agglomerate				mm	Primary grain				mm
	Agglomerate				mm	Agglomerate				mm	Agglomerate				mm
▶ From what type of vessel is solid/powder taken?	<input type="checkbox"/> Bag	<input checked="" type="checkbox"/> BigBag	<input type="checkbox"/> Drum	<input type="checkbox"/> Silo	<input type="checkbox"/> Bag	<input type="checkbox"/> BigBag	<input type="checkbox"/> Drum	<input type="checkbox"/> Silo	<input type="checkbox"/> Bag	<input type="checkbox"/> BigBag	<input type="checkbox"/> Drum	<input type="checkbox"/> Silo			

4) Information about other components

What processes are required?

- | | | | | |
|-------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> Mixing | <input type="checkbox"/> Homogenising | <input type="checkbox"/> Suspending | <input type="checkbox"/> Dissolving | <input checked="" type="checkbox"/> Powder induction and wetting |
| <input type="checkbox"/> Dispersing | <input type="checkbox"/> Emulsifying | <input type="checkbox"/> Wet grinding | <input type="checkbox"/> Aerating | <input type="checkbox"/> Others |

What type of production process will be suitable?

<input type="checkbox"/> Batch production	<input checked="" type="checkbox"/> Production in circulation	<input type="checkbox"/> Continuous production (Inline)
<input type="checkbox"/> Batches per 8 hours	Pumping height Hf <input type="text"/> mm	<input type="checkbox"/> Pump available
	Static pressure pz <input type="text"/> bar	

Throughput q	
min.	<input type="text"/> m ³ /h
max.	<input type="text"/> m ³ /h
Static pressure pz	<input type="text"/> bar
Counter pressure pg	<input type="text"/> bar

Please give a short description of the task

What is the present process and what improvements do you want to achieve?

Further technical requirements

<p>▶ <u>Main supply</u></p> <input type="checkbox"/> unknown <input type="text"/> V <input type="text"/> Hz	<p>▶ <u>Ex-class motor</u></p> <input type="checkbox"/> No Ex-class <input type="checkbox"/> EEx e <input type="checkbox"/> T3 <input type="checkbox"/> EEx de <input type="checkbox"/> T4	<p>▶ <u>Ex-class for the machine</u></p> <input type="checkbox"/> Non-Ex <input type="checkbox"/> Dust-Ex T135°C <input type="checkbox"/> Dust-Ex T200°C <input type="checkbox"/> Gas-Ex T4 <input type="checkbox"/> Gas-Ex T3	<p>▶ <u>Motor speed</u></p> <input type="checkbox"/> Single speed motor <input type="checkbox"/> Two speed motor <input type="checkbox"/> Variable speed motor <input type="checkbox"/> Frequency converter <input type="checkbox"/> Gear box
<p>▶ <u>Material in contact with the product</u></p> <input type="checkbox"/> 1.4571 (316Ti) Standard <input type="checkbox"/> Others <input type="text"/>	<p>▶ <u>Elastomeres in contact with the product</u></p> <input type="checkbox"/> FPM Fluorelastomere (Viton) <input type="checkbox"/> EPDM <input type="checkbox"/> FFKM Perfluorelastomer (Kalrez) <input type="checkbox"/> FPM (Viton) - FEP coated		<p>▶ <u>Additional requirements</u></p> <div style="border: 1px solid black; height: 50px; width: 100%;"></div>

Contact



Distributed by:
Powder Technologies Inc
PO Box 780
Hainesport, NJ 08036

Phone: 1-609-914-0521
Fax: 1-609-914-0318
Email: sales@powdertechusa.com
WEB: www.powdertechusa.com

Machine data (filled in by ystral)	Responsible	Date	



Customer Process Questionnaire

Installation air vessel

Appendix 1

Is a process vessel available and what is its specification

- Existing vessel with the following specifications
 Vessel does not exist but is planned with the following specifications
 Vessel does not exist, no detailed specifications available

▶ Vessel form

- Cylindrical vessel
 Cyl. Height mm
 Diameter d mm
 Height H mm
 Rectangular vessel
 Length mm
 Width mm
 Height H mm

▶ Pressure in vessel

- Atmospheric pressure
 Press. bar
 Vacuum bar

▶ Bottom form

- Dished Diffuser
 Cone: $\alpha =$ Flat

▶ Top form

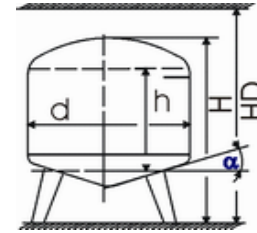
- Dished Open
 Cone: $\alpha =$ Flat

▶ Is the vessel equipped with a heating/cooling jacket?

- Yes No

▶ Which minimum/maximum filling volumes do you want to handle?

- Min. volume dm³
 Max. volume dm³



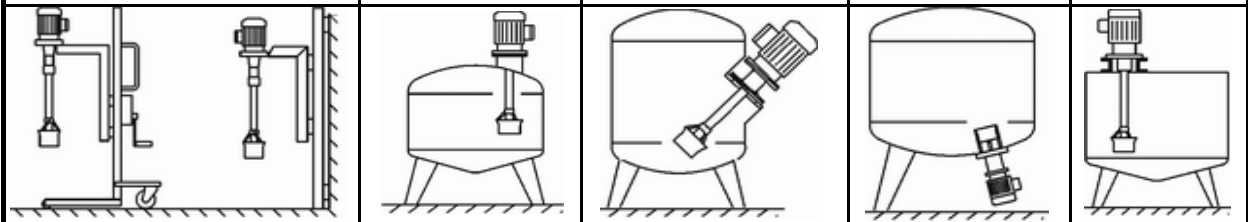
▶ Overall room height HD in the area mm

▶ Is there any additional equipment mounted in the vessel (Stirrer, baffles)?

- No
 Yes (please supply drawing)

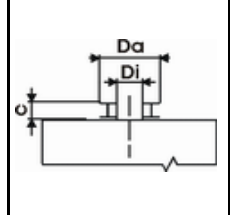
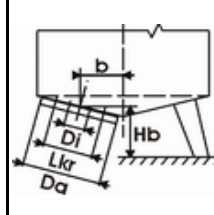
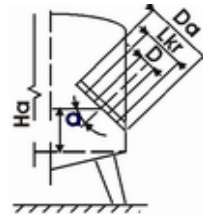
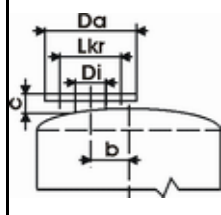
Which type of installation is foreseen or required?

- Installation on a lifting stand Top entry with flange Side entry with flange Bottom entry with flange From top on a traverse
 Moveable Stationary



Which installation facilities on the vessel are existing or planned?

No installation facilities existing or planned on the vessel



Outer diameter	Da	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Bolt circle diameter	Lkr	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Number and diameter of drill holes/threadungen / Gewinde im Lkr.		<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
Inner diameter	Di	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Distance to centre axis	b	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Height above top	c	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Height in cylindrical part	Ha	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm
Distance from bottom	Hb	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm	<input type="text"/>	mm

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Customer Process Questionnaire
Additional information / Sketches

Appendix 2

Additional information and sketches

Large empty yellow area for providing additional information and sketches.

Contact



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