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|  |

**Customer Questionnaire**

**Company:** Klicken oder tippen Sie hier, um Text einzugeben.

**Address:** Klicken oder tippen Sie hier, um Text einzugeben.

**Post Code / Place:** Klicken oder tippen Sie hier, um Text einzugeben.

**Country:** Klicken oder tippen Sie hier, um Text einzugeben.

**Contact:**  Klicken oder tippen Sie hier, um Text einzugeben.

**Phone:** Klicken oder tippen Sie hier, um Text einzugeben.

**E-Mail:** Klicken oder tippen Sie hier, um Text einzugeben.

**Project / Machine:**  Klicken oder tippen Sie hier, um Text einzugeben.

[ ]  New product [ ]  New process [ ]  Replacement/exchange

[ ]  Existing machine Make/ Type:       Machine No.:

1. **Your Process:**

Mixing - dry [ ]

* moist [ ]

Granulation [ ]  Reaction [ ]  Dispersion [ ]

Pyrolysieren [ ]  Drying [ ]  Liquefaction [ ]

Tempering [ ]  Coating [ ]        [ ]

1. **Characteristics of the final product** (Raw material properties on point 5)

[ ]  Dry - [ ]  Powdery - [ ]  Dust-free

 - [ ]  Free-flowing - [ ]  Granulate, agglomerate

[ ]  Moist - [ ]  Pasty, sticky - [ ]  Liquid, pumpable

1. **Is product build up to be expected?**

[ ]  Yes [ ]  Strong [ ]  Rigid

[ ]  No [ ]  Medium [ ]  Adhesive

 [ ]  Weak [ ]  Loose

 [ ]  Setting/ curing

 [ ]  Easily removable

 [ ]  Difficult to remove

1. **Production process**

[ ]  Manual [ ]  Automatic [ ]  Batchwise [ ]  Continuous

Required Performance      kg/h

Batch size      kg/batch

Possible No. of cycles      batch/h

Working hours      h/day      h/year

1. **Recipe / Product composition**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Product** | **powdery** | **dusty** | **pasty** | **Slightly moist** | **muddy** | **cristalline** | **lumpy** | **hygroscopic** | **Easy flowable** | **adhesive** | **fibrous** | **sticky** | **liquid** | **Part in recipe** | Bulk Density | **Particle size** | **Visc.** | **Humidtiy** |
| **Min** | **Medium** | **Max** |
| **[wt. %]** | **[kg/l]** | **[m]** | **[m]** | **[m]** | **[mPas]** | **[%]** |
| **1** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **2** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **3** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **4** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **5** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **6** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **7** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **8** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **9** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |
| **10** |       | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  | [ ]  |      |      |      |      |      |      |      |

1. **Quality criteria with respect to final product:**

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| --- |
| ExplanationKlicken oder tippen Sie hier, um Text einzugeben. |

1. **What analytical methods should be used for quality assessment?**

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| ExplanationKlicken oder tippen Sie hier, um Text einzugeben. |

1. **To be completed in case of tests**

Contact person Klicken oder tippen Sie hier, um Text einzugeben.
 E-Mail 🖂 Klicken oder tippen Sie hier, um Text einzugeben.
 Phone 🕾 Klicken oder tippen Sie hier, um Text einzugeben.

1. **Details of the process**

|  |  |
| --- | --- |
| Is a size reduction of the product allowed during processing? | [ ]  Yes [ ]  No  |
| Does an adhesive phase occur during the processing? | [ ]  Yes [ ]  No |
| What is the pH value of the initial product? | Klicken oder tippen Sie hier, um Text einzugeben. |
| Are the products explosive, flammable and / or toxic? **If yes**, please fill in the ATEX Questionnaire | [ ]  Yes [ ]  No [ ]  No |
| Is gas/ vapour released during the reaction/drying? | [ ]  Yes [ ]  No....................................................... |
| Heat of reaction of the process? | [ ]  none [ ]  endothermic [ ]  exothermic |
| Initial humidity [wt. %] | Klicken oder tippen Sie hier, um Text einzugeben. |
| Desired final humidity [wt. %] | Klicken oder tippen Sie hier, um Text einzugeben. |
| 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 |

1. **Technical specification**

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| --- |
| **Material:** Product-contact parts [ ]  Stainless steel [ ]  Mild steel [ ]  Lining:       [ ]  Material No.       Outside parts [ ]  blasted [ ]  polished [ ]  painted Design pressure       bar Design temperature      °C Pressure vessel regulation (DGRL, ASME, etc.)       |
| **Product feed** No. of feed ports:       | **Electrical equipment / cabinet**Control cabinet [ ]  included [ ]  by customer |
| **Product discharge** Manual PneumaticDoor [ ]  [ ]  Ball valve [ ]  [ ]  | Operating voltage       VControl voltage       VValve voltage       VFrequency       HzProtection IP       |
| **Explosion protection / ATEX** [ ]  Yes [ ]  No |

1. **Utilities**

|  |  |  |
| --- | --- | --- |
| Energy source for | Inlet temperature [°C] | Pressure [bar] |
|  | Water | Klicken oder tippen Sie hier, um Text einzugeben. | Klicken oder tippen Sie hier, um Text einzugeben. |
| Heating | Steam | Klicken oder tippen Sie hier, um Text einzugeben. | Klicken oder tippen Sie hier, um Text einzugeben. |
|  | Thermal oil | Klicken oder tippen Sie hier, um Text einzugeben. | Klicken oder tippen Sie hier, um Text einzugeben. |
| Cooling | Water | Klicken oder tippen Sie hier, um Text einzugeben. | Klicken oder tippen Sie hier, um Text einzugeben. |
|  | Brine | Klicken oder tippen Sie hier, um Text einzugeben. | Klicken oder tippen Sie hier, um Text einzugeben. |

1. **Other remarks**

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| [ ]  Drawing/ sketch/ flow chart attachedShort description of the reaction process, process flow, temperature profile, peripherals, etc.:Klicken oder tippen Sie hier, um Text einzugeben.  |

 Klicken oder tippen Sie hier, um Text einzugeben.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Place / Date |  | Signature / Stamp |  |
| Should you require any further information, please contact your sales representative directly. |