



5320 Enterprise Street, Suite J  
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 Tel (410) 549-8090  
 Fax (410) 549-8091  
 www.spraydrys.com

## SPRAY DRYER QUESTIONNAIRE

- 1) Please complete the questionnaire as much as possible
- 2) Items in *\*Italics\** must be completed
- 3) Include either the Dry Product Rate OR the Feed Rate
- 4) Circle units where data is entered
- 5) Return form to SDS @ Fax (410) 549-8091

### COMPANY INFORMATION

COMPANY: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_ CELL: \_\_\_\_\_ FAX: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

### PRODUCT PROPERTIES

PRODUCT NAME: \_\_\_\_\_  
 USE OF PRODUCT: \_\_\_\_\_  
 \* *DRY PRODUCT STREAM RATE:* \_\_\_\_\_ lb/hr or kg/hr  
 \* *PRODUCT RESIDUAL MOISTURE:* \_\_\_\_\_ wt%  
 AVERAGE PARTICLE SIZE DESIRED: \_\_\_\_\_ micron mesh  
 HAS PRODUCT BEEN SPRAY DRIED BEFORE? yes no  
 DRYER INLET AIR TEMPERATURE: \_\_\_\_\_ °F °C  
 DRYER OUTLET AIR TEMPERATURE: \_\_\_\_\_ °F °C  
 ATOMIZATION USED? Pressure Nozzle Rotary 2-Fluid Nozzle  
 IF PRESSURE NOZZLE, WHAT PRESSURE? \_\_\_\_\_ psig barg  
 IS MINIMIZATION OF FINES IMPORTANT? yes no  
 IS THE PRODUCT FRIABLE? yes no  
 AVOID PARTICLE DEGRADATION? yes no  
 EXPECTED BULK DENSITY: \_\_\_\_\_ lb/ft<sup>3</sup> kg/m<sup>3</sup>  
 MAXIMIZE BULK DENSITY? yes no  
 IS THE DRY POWDER HEAT SENSITIVE? yes no  
 MAX SOLIDS TEMPERATURE ALLOWED: \_\_\_\_\_ °F °C  
 IS POWDER COOLING REQUIRED? yes no  
 DESIRED SOLIDS TEMPERATURE: \_\_\_\_\_ °F °C  
 IS THE DRY POWDER EXPLOSIVE? yes no  
 DUST CLASS: \_\_\_\_\_ Kst: \_\_\_\_\_ bar-m/s<sup>2</sup> Pmax: \_\_\_\_\_ barg

### FEED PROPERTIES

\* *FEED TYPE:* DISSOLVED or UNDISSOLVED SOLIDS  
 \* *FEED SOLVENT:* \_\_\_\_\_ (i.e. Water, ethanol )  
 \* *FEED RATE:* \_\_\_\_\_ GPM liter/min lb/hr kg/hr  
 \* *TOTAL FEED SOLIDS CONCENTRATION:* \_\_\_\_\_ wt%  
 \* *FEED DENSITY:* \_\_\_\_\_ lb/gal gm/cc  
 \* *CAN THE FEED BE PUMPED?* yes no  
 \* *SIZE OF LARGEST PARTICLES IN FEED:* \_\_\_\_\_ micron mesh  
 FEED TEMPERATURE: \_\_\_\_\_ °F °C  
 APPROXIMATE FEED VISCOSITY: \_\_\_\_\_ centipoise  
 FEED pH: \_\_\_\_\_  
 ARE THERE FIBROUS MATERIALS IN THE FEED? yes no  
 DOES THE FEED USE A BINDER? yes no  
 IF YES, WHAT TYPE? \_\_\_\_\_

### SITE CONDITIONS

PROPOSED DRYER LOCATION: indoors outdoors  
 SPACE LIMITS? yes no DEFINE: \_\_\_\_\_  
 PLANT ELEVATION ABOVE SEA LEVEL: \_\_\_\_\_ feet meters  
 FUEL: Natural Gas @ \_\_\_\_\_ psig Other \_\_\_\_\_  
 ELECTRICAL SUPPLY: 480/3/60 380/3/50  
 AREA CLASSIFICATION: CLASS \_\_\_\_\_ GROUP \_\_\_\_\_ DIV \_\_\_\_\_

### SYSTEM PREFERENCES/REQUIREMENTS

MOC FOR PRODUCT CONTACT: 304SS 316SS Carbon Steel  
 MOC FOR NON-PRODUCT CONTACT: 304SS 316SS CS  
 IS SANITARY CONSTRUCTION REQUIRED? yes no  
 CONFIGURATION: Co-Current Mixed Flow Counter-Current  
 COLLECTION: Baghouse Cyclone/Baghouse Cyclone/Scrubber  
 CHAMBER SEPARATION? yes no  
 ATOMIZATION TYPE: Pressure Nozzle Rotary 2-Fluid Nozzle  
 ABSORBER REQUIRED? yes no CHEMICAL: \_\_\_\_\_

### TYPE OF QUOTATION

TYPE OF QUOTE: Budget Firm  
 REASON FOR QUOTE: Feasibility Study Purchase  
 INCLUDE CONTROL SYSTEM? yes no TYPE: Basic PLC  
 INCLUDE STRUCTURAL STEEL? yes no  
 INCLUDE MOTOR CONTROLS? yes no  
 DATE QUOTE REQUIRED: \_\_\_\_\_  
 ESTIMATED DATE FOR ORDER: \_\_\_\_\_  
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