



## Explosion Protection Worksheet

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Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 Project \_\_\_\_\_

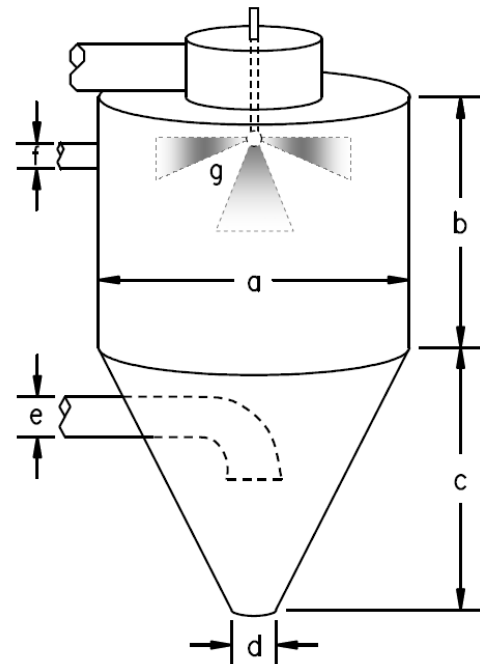
Contact \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-Mail \_\_\_\_\_

## Spray Dryer

Process	
Maximum positive pressure	
Maximum vacuum	
Maximum process temperature	
Ambient temperature	
$P_{red}$ – enclosure strength	
Enclosure location	<input type="checkbox"/> indoors <input type="checkbox"/> outdoors
If indoors - distance to exterior wall	
Fines recycling	<input type="checkbox"/> yes <input type="checkbox"/> no
<sup>m</sup> powder	kg / h
<sup>m</sup> Air	kg / h
integrated fluid bed	<input type="checkbox"/> yes <input type="checkbox"/> no
Hybrid mixtures (according to VDI) = < 20% LEC (according to NFPA) = < 10% LEC	<input type="checkbox"/> yes <input type="checkbox"/> no

Combustible material	
Name	
$K_{St}$	bar*m/sec
MIE	MJ
$P_{max}$	barg

Enclosure	
Tag/I.D. Number	
Manufacturer	
Model Number	
a	Outer diameter
b	Cylindrical height
c	Conical-height
d	Discharge diameter
e	Exhaust diameter
f	Recycle material diameter
g	Spray nozzle <input type="checkbox"/> conical <input type="checkbox"/> centrifugal



- Explosion Venting -**  
Control the Explosion Pressure  
Relieves explosion overpressure within process enclosure before destructive levels of pressure are reached
- Explosion Isolation -**  
Control the Explosion Propagation  
Mechanical barriers to prevent the spread of explosions through interconnected pipe or ducts

**Comments:**

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