

EXPLOSION SAFETY WORKSHEET



REMBE® Inc.

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Company _____
 Address _____

 Project _____
 Insurance Carrier _____

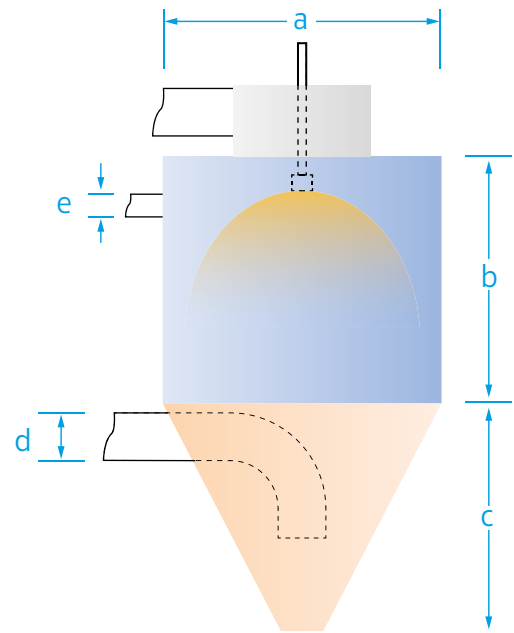
Contact _____
 Phone _____
 Fax _____
 Email _____

Spray Dryer

Process	
Maximum positive pressure	
Maximum vacuum	
Maximum process temperature	
Maximum process temperature	
Ambient temperature	

Combustible material	
Name	
P_{max}	_____ barg
K_{St}	_____ bar*m/s
MIE	_____ mJ
Hybrid Mixture NFPA = < 10% LEC VDI = < 20% LEC	<input type="checkbox"/> Yes <input type="checkbox"/> No
Metallic dust	<input type="checkbox"/> Yes <input type="checkbox"/> No

Enclosure	
Tag/I.D. Number	
Manufacturer	
Model No.	
P_{red} – enclosure strength	
Enclosure location	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors
If indoors - distance to exterior	
a	Body diameter
b	Body height
c	Hopper height
Spray nozzle	<input type="checkbox"/> Conical <input type="checkbox"/> Centrifugal
Recycling fines	<input type="checkbox"/> Yes <input type="checkbox"/> No
Product flow rate	_____ lbs/hr
Mass flow rate of air	_____ lbs/hr
Integrated fluid bed	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hopper discharge dimensions	



Inlet and exhaust ducts		
d	Exhaust air dimensions	
	Exhaust air duct length	
	Number of exhaust ducts	
e	Recycle inlet dimensions	
	Recycle inlet duct length	

<input type="checkbox"/>	Explosion Venting – Control the Explosion Pressure Relieves explosion overpressure within process enclosure before destructive levels of pressure are reached
<input type="checkbox"/>	Explosion Isolation – Control the Explosion Propagation Mechanical barriers to prevent the spread of explosions through interconnected pipe or ducts

Comments: _____

Submit