

EXPLOSION SAFETY WORKSHEET



REMBE® Inc.

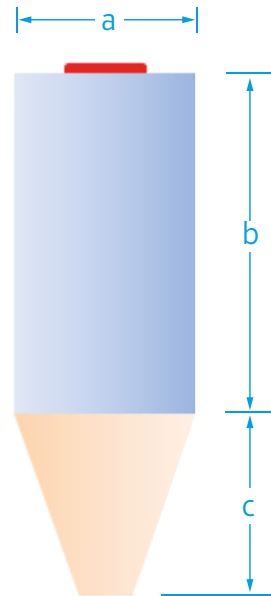
3809 Beam Road Suite K | Charlotte, NC 28217, USA | T +1 704 716 7022 | F +1 704 716 7025 | info@rembe.us
www.rembe.us

Company _____
 Address _____

 Project _____
 Insurance Carrier _____

Contact _____
 Phone _____
 Fax _____
 Email _____

Silo / Cylindrical bin



Process	
Maximum positive pressure	
Maximum vacuum	
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
Hopper discharge dimensions	
Bin vent/aspiration line	<input type="checkbox"/> Yes <input type="checkbox"/> No

Filling and Discharging	
Inlet diameter	
Inlet pipe length	
Feed rate	_____ lbs/hr
Air flow	_____ cfm
Outlet Rotary Valve (Explosion proof)	<input type="checkbox"/> Yes <input type="checkbox"/> No

Comments:

<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
<input type="checkbox"/>	Return Air Isolation – Control the Explosion Propagation