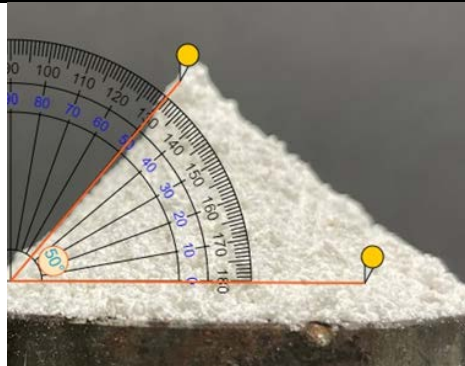



Trial report

Date	September 10th 2021	Weather	Fine	Temperature	19°	Humidity	41%
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		Name of Powder	Calcium hydroxide	Bulk density	0.5
Type of raw material	Pellet	Image	Sprinkle	Genre	Chemistry
Details of raw material					
Angle of repose	50°		Cohesiveness	High	
					
Fig.1 Angle of repose			Fig.2 Feature		
50° Bridge measures is necessary			Finely and has high cohesiveness, and splashes powder dust.		

Comments
This pellets are finely sprinkle and non-sticky, it was be able to discharged without using a bridge breaker (Fig.1, Fig.2). We weighed the amount of discharged pellet in multiples of 30second (Table 1). The varying quality of discharged amount was $\pm 2\%$.

Weighing method	Volumetric	Timer	Unused	Aim value	3kg/hour
No.	Time	Integrated weight(g)	Discharged weight(g)	<p>Averages : 27.7 g/30sec Maximun value : 30.2 g/30sec Minimum value : 424.3 g/30sec An hour conversion : 3.21kg/hour</p> <p>Test scene movie https://youtu.be/YsEUUYUp19U</p> <p>Company Profile movie https://www.youtube.com/watch?v=1FRYOZq009c</p>	
1	0	333.6			
2	30	362.9	29.3		
3	60	391.2	28.3		
4	90	420.7	29.5		
5	120	449.1	28.4		
6	150	478.4	29.3		
7	180	508.6	30.2		
8	210	537.2	28.6		
9	240	566.3	29.1		
10	270	595.9	29.6		
11	300	625.0	29.1		
12	330	654.1	29.1		
13	360	682.3	28.2		
14	390	710.4	28.1		
15	420	739.2	28.8		
16	450	766.6	27.4		
17	480	794.1	27.5		
18	510	820.7	26.6		
19	540	846.4	25.7		
20	570	871.9	25.5		
21	600	898.4	26.5		
22	630	925.6	27.2		
23	660	949.9	24.3		
24	690	975.0	25.1		
25	720	1000.1	25.1		
				Table 1 Discharged weight in multiples of 30 seconds	




Machine's specification		Appearance
Type of machine	Screw feeder	
Feeder size	φ25.4	
Type of screw	Standard	
Hopper	3L	
Agitator	Installed	
Special notes		
Ratio of reduction gear:1/18		
<Method of control> Speed controller(keeping 100rpm)		

Fig.3 Test equipments

Appearance of trial	
	
Fig.6 Type of screw : Standard	Fig.4 Discharging scene