Trial report

SEIWA GIKEN

Date	May-22	Weather	Fine	Temperature	24	Humidity	33%

		Name of Powder	Glaess powder	Bulk density	1.46
Type of raw material	powder	Image	Smooth	Genre	Chemistry

Details of raw material

Angle of repose	25°	Cohesiveness	Low

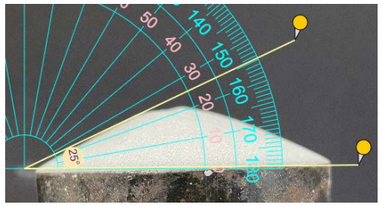

Fig.1 Angle of repose

25° Bridge measures is not necessary

Fig.2 Feature

Smooth and highly fluid

Comments

This powder are finely smooth and non-sticky, it was be able to discharged without using a bridge breaker (Fig.1, Fig.2). We weighed the amount of discharged powder in multiples of 60second (Table 1.2). The varying quality of discharged amount was ±1%.

Weighing method	Volumetric	Timer	Unused	Aim value	-

No.	Time	Discharged weight(g)
1	60.0	50.4
2	60.0	50.6
3	60.0	49.5
4	60.0	49.4
5	60.0	49.6

Table 1 Discharged weight (11rpm) in each 60 seconds

No.	Time	Discharged weight(g)
1	60.0	263.0
2	60.0	263.6
3	60.0	262.1
4	60.0	261.5
5	60.0	260.8

Table 2 Discharged weight (45rpm) in each 30 seconds

No.	Time	Discharged weight(g)
1	60.0	480.1
2	60.0	476.0
3	60.0	474.6
4	60.0	477.0
5	60.0	474.4

Test scene movie
https://youtu.be/xwCIfxzGl80

Company Profile movie
https://www.youtube.com/watch?v=1FRYOZq009c

Machine's specification	
Type of machine	Screw feeder
Feeder size	φ25.4
Type of screw	Standard
Hopper	3L
Agitator	-

Special notes

Ratio of reduction gear:1/18

<Method of control>
Speed controller
(keeping 11,50 and 100rpm)

Appearance

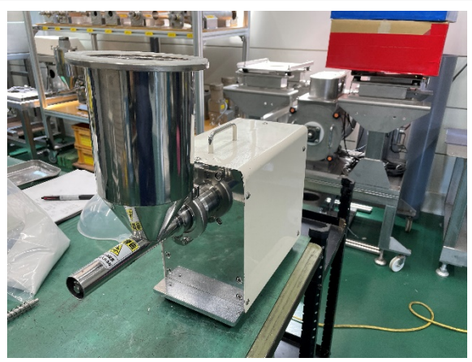

Fig.3 Test equipments

Appearance of trial

Fig.6 Type of screw : Standard and spring

Fig.4 Discharging scene