Trial report

Date	Mar-22	Weather	Fine	Temperature	20°	Humidity	35%



		Name of Powder	Carbon powder		Bulk density	0.16
Type of raw material	powder	Image	Smooth		Genre	Carbon
Details of raw material						
Angle of repose		35°		Cohesiveness		Low

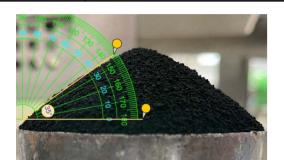


Fig.1 Angle of repose

35° Bridge measures is not necessary

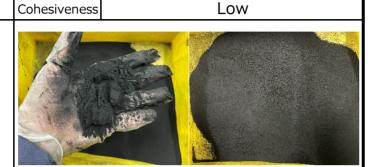


Fig.2 Feature

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 30second (Table 1). The varying quality of discharged amount was ±2%.

No.	Time	Integrated weight(g)		
1	30.0	33.7		
2	30.0	33.6		
3	30.0	32.8		
4	30.0	33.2		
5	30.0	33.4		
6	30.0	33.7		
7	30.0	32.6		
8	30.0	33.3		
9	30.0	33.6		
10	30.0	33.2		

Table 1 Discharged weight (90rpm) in each 30 seconds

		Integrated		
No.	Time			
		weight(g)		
1	30.0	16.7		
2	30.0	16.5		
3	30.0	16.4		
4	30.0	16.6		
5	30.0	16.5		
6	30.0	16.7		
7	30.0	16.6		
8	30.0	16.6		
9	30.0	16.6		
10	30.0	16.7		

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

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

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

Machine's specification		
Type of machine	Screw feeder	
Feeder size	φ38	
Type of screw	Standard	
Hopper	-	
Agitator	-	
Special notes		
Datio of roduction goars 1/20		

Ratio of reduction gear: 1/20

<Method of control>
Speed controller(keeping 90rpm)

Appearance



Fig.3 Test equipments

Appearance of trial



Fig.6 Type of screw: Standard



Fig.4 Discharging scene