



Angle of repose

Section 3, 4

vizle



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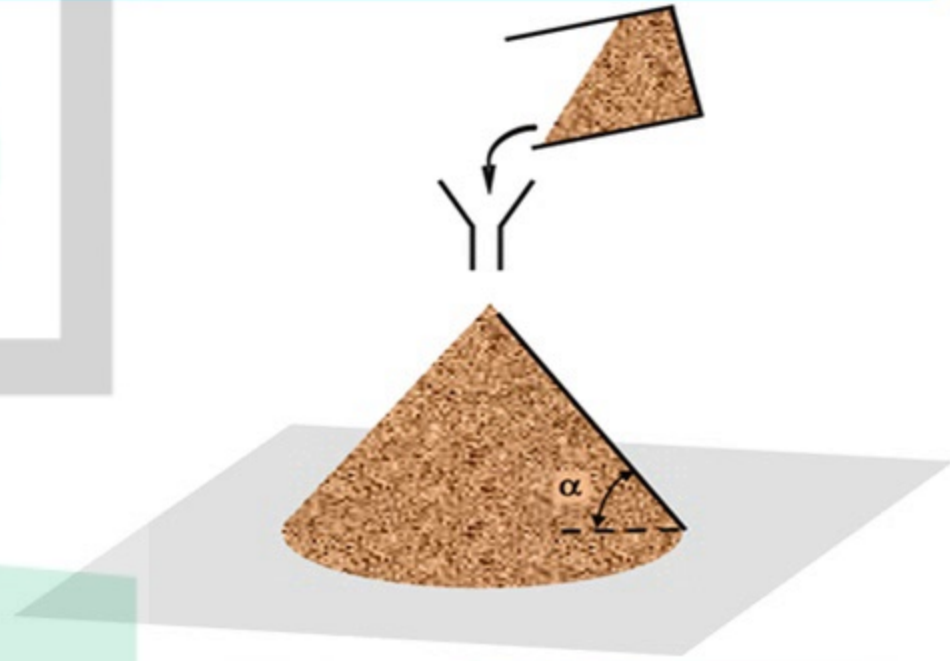
What is flowability

- Good flowability should be
 - ✓ Regular
 - ✓ constant



Practical work: how to measure angle of repose

1. Get the powder go through a funnel against plane sheet of paper until reach tip of the funnel
2. Calculate the angle of the resulting pyramid

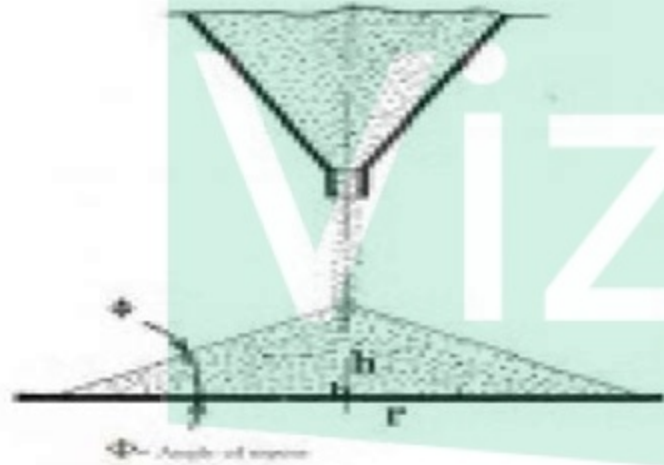
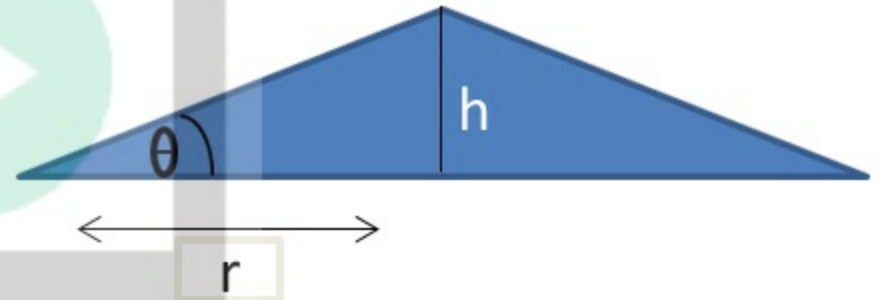


How to calculate angle of repose

$$\tan \theta = \frac{h}{r}$$

$$H = 1 \text{ cm}$$

$$r = ?$$



Practical work: how to calculate angle of repose

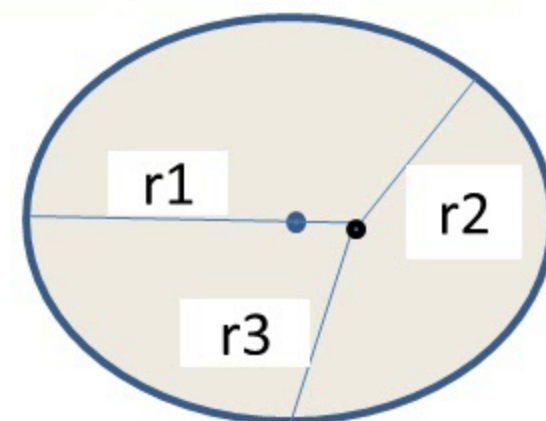
$$\tan \theta = 1 / r_{av}$$

circle	r1	r2	r3	r _{av}	Tan θ
1					
2					
3					

$$\tan \theta_{av} = \dots$$

$$\theta = \dots$$

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