

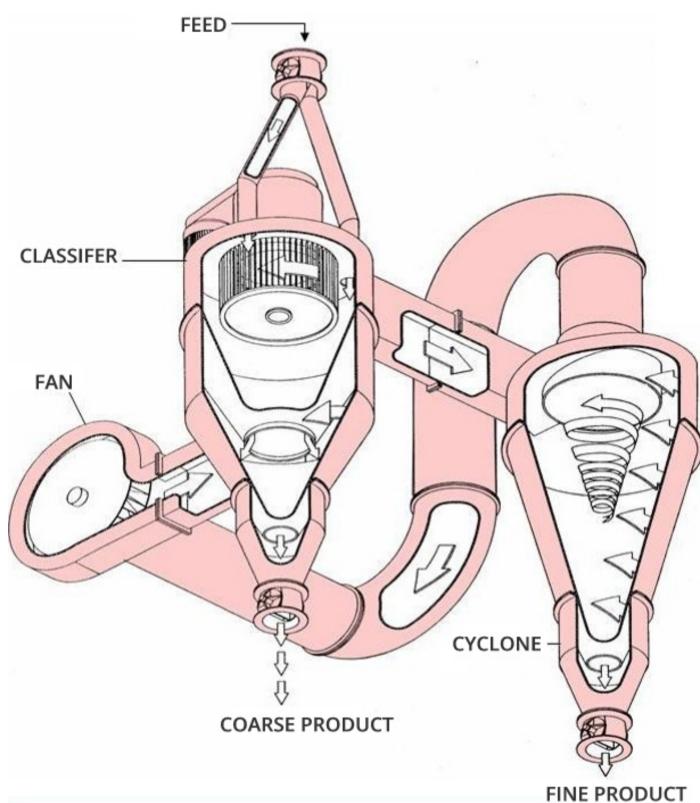
#### What is it used for?

#### separating allows powder materials depending of particle size

- □ A controlled-speed flow of air is passed through the powder extracting the fines from the flow
- □ Feed and air flow speed can be adjusted to modify the separation limit between the fine and coarse (rejected) fractions
- □ Calibration curves can be defined for each material relating the classifier speed with the separation limit

### **Applications**

- Control grinding of process by the coarse (rejected) extraction of fraction
- Separation of different minerals with different sizes in an intermixed powder



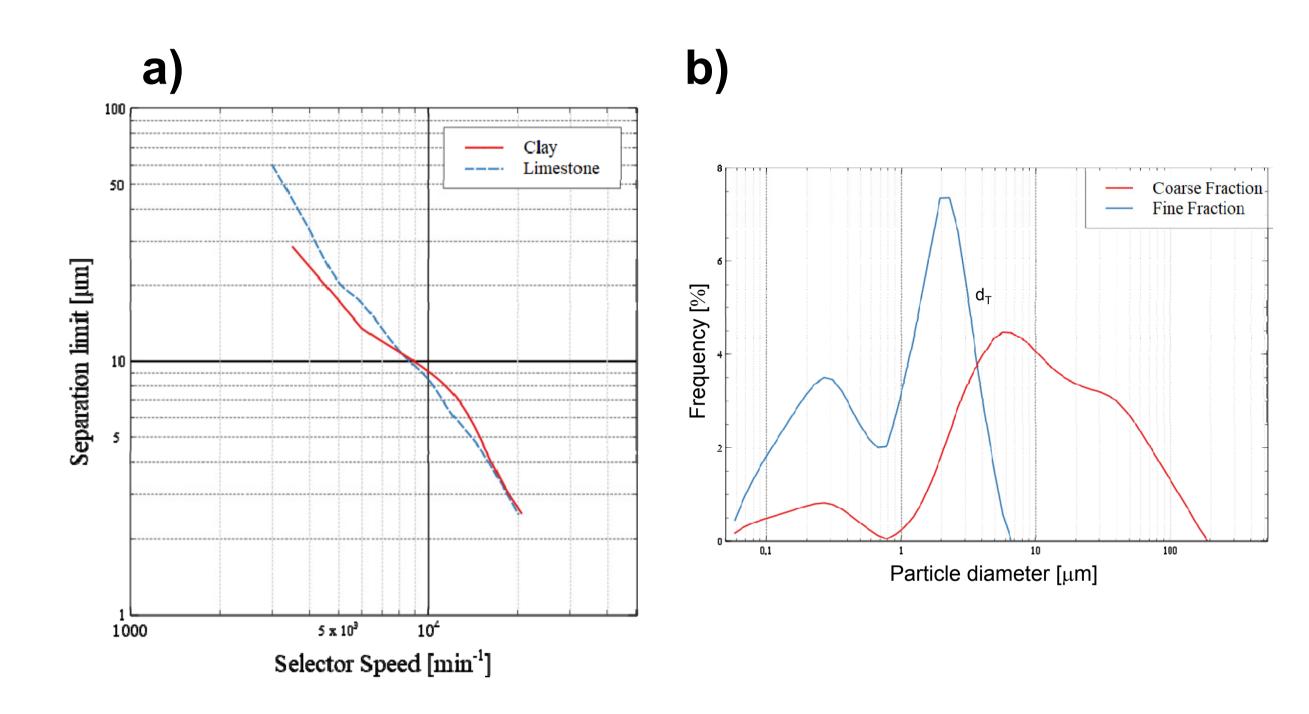
# **Air Classifier**

Diagram of operation of air classifier



Lab-scale air classifier at LMC

## One example of results



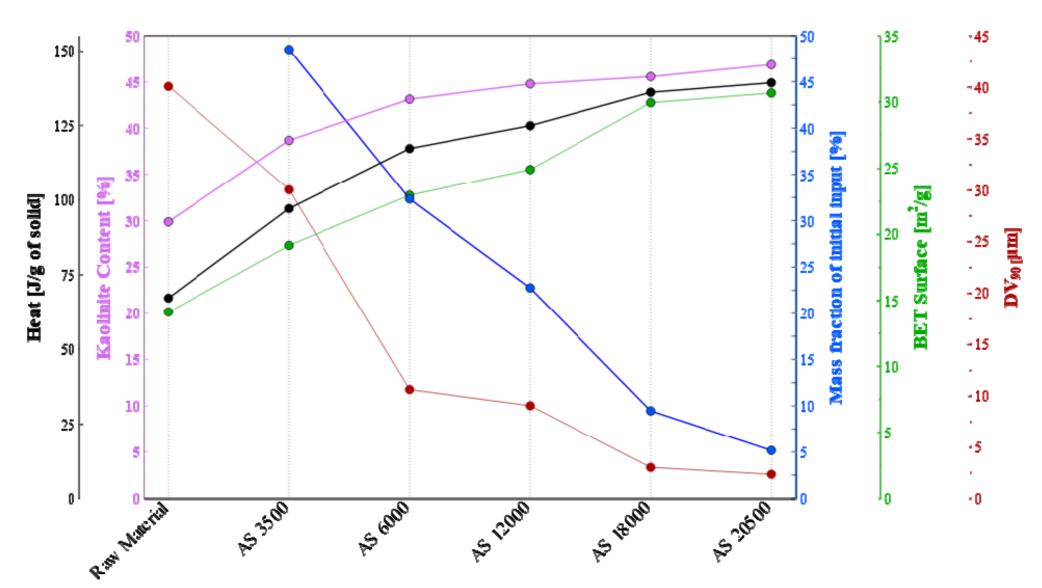


Fig. 2 Calcined clay physical and chemical properties as a function of classifier speed. Results from the fine fraction.



**Fig. 1** a) Calibration curve of calcined clay and limestone (separation limit as a function of the classifier speed) and b) example of separation limit between fine and rejected fraction