



PROCESS STEPS

Four process steps, one goal: clean products.

CLASSIFICATION



By classification, different fractions having different particle properties are produced from a mixture of solids, or coarse/fine particles are removed which are undesirable in subsequent processes.

Classification or screening means the separation of a particle collective into different fractions, which usually differ in their particle size or particle type. The aim of the classification is

- to produce several – but at least two – subsets of the original solid mixture
- to separate coarse or fine particles (oversize or undersize grain) that interfere with subsequent processes.

For many products, sales opportunities or further processing within a process depend on maintaining a certain purity or a narrow particle size distribution. Thus, the reliable separation of interfering particles is of immense importance, especially in the production of high-quality, expensive products, such as in polymer chemistry, the food industry, biotechnology, the pigment industry, the ceramic industry, materials technology, etc.

The separation of interfering particles from suspensions with critical properties such as very high particle concentrations, high viscosity, thixotropic behavior or soft particles etc. represents a particular challenge in separation technology.

With the BoCross MicroScreen filter, high viscous and highly concentrated dispersions can be continuously sieved in a closed apparatus with high throughput and sharp cut, while the retentate content and thus, the product losses are extremely low.



