Manufacture of mixtures and granulated product

Manufacture of mixtures and granulated product from fine materials using an Intensive Counterflow Mixer

Technology description

An intensive counterflow mixer is a tool that allows the production of a mixture of very high homogeneity from fine substances (e.g. from powders, dusts, mules, ashes, sludges) in one technological operation, while giving them the shape of compact granules with a grain size of 0.5 - 8 mm.

Granulation, i.e. controlled agglomeration of fine-grained substances with a high degree of dispersion, is a technique carried out in various ways, but in each case aimed at either preparing the powder for further technological operations or giving it the shape and properties characteristic of the final product (e.g. catalysts or pharmaceutical products).
Advantages

Changing the form of fine-grained materials into a granulated form contributes to the reduction of the process of mixtures segregation during transport, their lumping, improves the looseness of materials, facilitates their dosing. In addition, the effect of using granulates is the reduction of harmful work factors. Thanks to the granulation, waste can be turned into a product, thus removing the waste disposal code.

Application

The area of application are technologies for the preparation of raw materials in metallurgy, through ceramics and glass, chemical substances, fertilizers, carbonacerous materials, friction linings and battery pastes, reclamation materials, backfilling materials and waste treatment.