

## Flocculant:

In the field of **solid-liquid separation**, Testori expands its product range by offering flocculating agents that **improve the dewaterability of sludge and the quality of the filtrate**. The flocculant acts as a unifying element for the colloidal particles (previously destabilized by coagulation). The formation of the flake causes an increase in the size of the solid fraction, making it **more efficiently separable**.

## Main characteristics:



Testori **FlocTes** are essentially polyelectrolytes which differ according to:

- **Appearance:** available in solid form (powder or granules)
- **Ionic charge:**
  - **Anionic (-)** for particles of mineral origin
  - **Cationic (+)** for particles of organic origin
- **Density of ionic charge:** varies from 0 to 100% depending on the application
- Wide variety of molecular weights

The flocculant is recommended on the basis of specific chemical-physical analysis of the sludge.

## Equipment:



Testori filter media for dewatering filter presses and belt presses fitted mainly. The air conditioning works on the physical and chemical characteristics of the sludge by allowing you to:

- **Increase solid-liquid separation rate**
- **Increase cake dryness**
- **Improve the characteristics of the filtrate**
- **Reduce the creep phenomena** (in the belt press)
- **Reduce the clogging** of the cloth (in filter presses)

The **FlocTes**, can be employed also in the upstream of the filtration, as for example during the **sedimentation and/or thickening** by gravity or by centrifugal separators, both on the water line that the sludge line.

## Applications:

Sludge dewatering plants:

- civil and industrial (chemical sludge) wastewater treatment
- clarification of drinking water systems
- food industry
- alumina industry
- processing of inert materials
- paper industry

