# Effect of Flocculating Agent Concentration on the Flocculation Efficiency

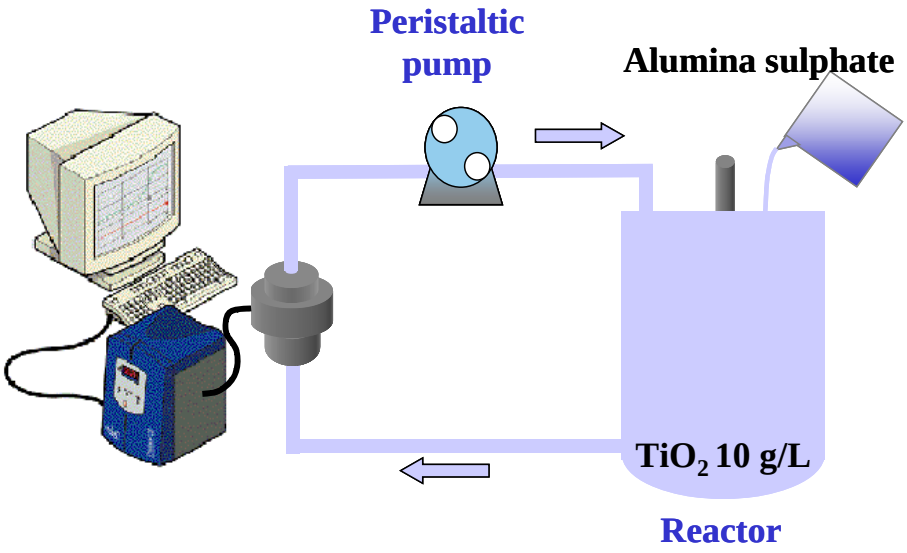
## Application
All domains

## Objective
Study the effect of flocculating agent concentration of flocculation efficiency

## Device
TURBISCAN® ONLINE

## METHOD
Several experiments were made by introducing different quantities of alumina sulphate in a suspension of titanium dioxide at 10 g/l.

For each alumina sulphate concentration, the Turbiscan ONLINE follows the evolution of the backscattering light intensity in real time.
The time $T_0$ corresponds to the moment when we introduce the flocculating agent.




## RESULTS
Figure 1, we can see that the backscattering is decreasing as a function of time. It corresponds to the flocculation of the particles (particle size increase) due to the introduction of flocculating agent. The more alumina sulphate is added, the quicker and the more complete the flocculation is (big floc sizes).
Figure 1.