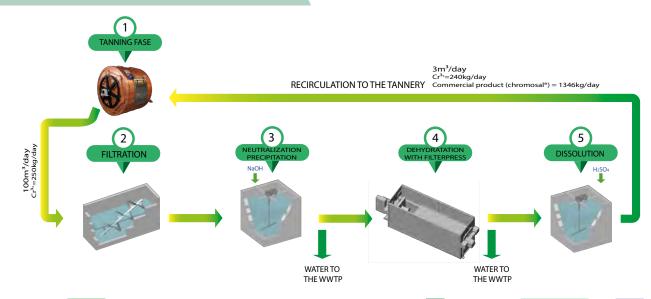




Through the chrome recovery system developed by Deltacque, it is possible to reuse the discharged baths in the tanning phases, separating and purifying with simple operations and with a low cost the chrome liquor, that can be reintegrated also in the process cycle, characterized by excellent quality standards.

In detail, as shown in the figure below, the chrome baths are firstly filtered and, after a proper neutralization, settled. The precipitate (chrome sludge) is then dehydrated to allow the elimination of water fractions and dissolved (through the addition of sulphuric acid) to let it again available for the tannery process.

## CHROME RECOVERY DIAGRAM: MAIN PHASES





Thanks to Deltacque's system the chrome recovery is almost complete, as its elimination from the final effluent after treatment.

The reintegration of the chrome in the productive process allows as follows:

- great environmental impact reduction, thanks to the improvement of the discharged water quality;
- better control of the productive process, due to the continuous monitoring of the discharge;
- high economic return, thanks to the saving of the fresh reagent use and the eventual fees for the discharge in public sewage;
- important savings on sludge disposal costs, that are chrome free and can be easily eliminated or reused as fertiliser in agriculture.



