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The invention refers to processes for defluorination of natural water.

Summary of the invention consists in that the process includes obtaining in situ of the fluorine sorbent by the galvanochemical aluminium solving, mixing the treated water and separating the solid phase. In the treated water it is administered a waste mixture: aluminium chip and carbonic material, (activated coal or graphite having particles dimension of 0,5...1,0 mm), corundum and diatomite. The particles of exhaust abrasive wheel having a diameter of 0,5...1,0 mm are used as corundum.