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Summary of the invention consists in, that it is proposed a process for defluorination the natural water which includes the continuous mixing of water and electrochemical treatment thereof into a flow at the mass flow rate of 0,3...0,5 dm³/min. Into the treating 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), which form a galvanic element.

The purifying process is realized by electrochemic dissolving of the aluminium which forms hydrated compounds into the water medium. These compounds interact with fluorine forming the nonsoluble complexes.

Additionally into the treating water it is added corundum and diatomite. The particles of exhaust abrasive wheel, having a diameter of 0,5...1,0 mm, are used as corund.

The result consists in decreasing the aluminium and power consumption during the purifying process.