The invention relates to processes for metal extraction from waste, in particular to vanadium extraction from waste resulted from fuel oil burning.

The process includes extraction of vanadium in the form of NaVO₃ by waste leaching at heating with a NaOH solution in the presence of oxidant, decantation of the NaVO₃ extract from the insoluble residue, repeated washing of the residue, with subsequent filtration of the combined NaVO₃ extract and treatment thereof with ammonium inorganic salts, for example NH₄Cl, NH₄NO₃ or (NH₄)₂SO₄ for vanadium sedimentation in the form of NH₄VO₃, separation of the sediment, washing, dying and calcination with V₂O₅ obtaining.

At the same time, as oxidant is used $(NH_4)_2S_2O_8$ or Na_2O_2 in NaOH solution with the concentration of 500 g/dm³, in the molar ratio oxidant:NaOH of (1...2):10. The leaching is carried out at the temperature of $100...120^{\circ}C$, during 20 minutes, the ratio solution:residue being of 10:(6...6,5).

Claims: 1