

99-0232

The invention refers to processes for obtaining catalysts for purification of gases containing toxic materials.

Summary of the invention consists in, that it is proposed a process for obtaining a metallic catalyst, which includes deposition of intermetallic compounds upon a carrier at further leaching of one of the compounds. As a carrier it is used a metallic gauze. The nickel-cobalt-palladium intermetallic compounds with phosphor and bor additives are applied on the gauze by the electrochemical metals deposition at 20-30°C, pH of 8,5...9,5 and cathode current density of 2...4 A/dm² from the electrolyte containing in g/L: nickelous chloride 30...50, cobaltchloride 10...15, palladium chloride 3...5, ammonium chloride 120...150, sodium hypophosphite 10...15, dimethylaminoborane 1,0...1,5. Thereafter it is carried out alitizing of metals layer into the aluminium alloy (alloy D 16) and leaching of one of the intermetallic compounds component with a solution of sodium hydroxide in g/L 500...700 and sodium nitrate 60...70 at 100...140°C.

The result consists in increasing the specific catalyst active surface and adhesion thereof to the metallic carrier at temperature abrupt changes during use thereof.