

#### 96-0021

The invention relates to the processes for obtaining a catalyst for gas cleaning from carbon monoxide and hydrocarbons, for example, the exhaust gas of the internal combustion engines and may be used for boiler chimney gas cleaning and other industrial productions.

The summary of the invention consists in the fact that manufacturing of catalyst for gas cleaning includes the dipping of ceramic cellular carrier in the aqueous solution on the aluminium combination base, then in the active metal salts solution, drying and burning, the aluminium combinations aqueous solution comprises aluminium hydroxonitrate of general formula:  $Al_n(OH)_m \cdot nNO_3$  with the basis capacity of 30-80% obtained by electrochemical dissolving of aluminium in the sodium nitrate solution and supplementary comprises polyvinyl alcohol, aerosil and sodium borohydride and the active metals solution comprises 0,1-0,2% of palladium salt in relation to the ion amount of base metals, the dipping is carried out in deaeration conditions and the burning - at 500-550°C during 0,5-1 hour.

The apparatus for realization of the process for catalyst preparation comprises a reaction capacity, a tank for saturated liquids and a pipeline system, the reaction capacity is made with the hermetization possibility and the apparatus is complementary provided with a deaeration system comprising a vacuum pump, vacuum meter, globe electromagnetic valves and the control desk, including a distribution electric device connected to the electromagnetic valves and the pressure transducer installed on the reaction capacity pipeline, and the vacuum pump switch with the program of switching on and switching off possibility.

The technical result of the invention consists in increasing the specific surface of the catalyst, improvement of the catalyst adhesion at the expense of forming a stable chemical linkage with the ceramics component, as well as with the second carrier.