**THE HIGH EFFECTIVE CATALYSTS FOR NEUTRALIZATION OF THE EXHAUST GASES OF MOTOR TRANSPORT**

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On emissions of harmful substances from stationary sources in atmosphere Kazakhstan is in the lead three after Russia and Ukraine. The air pollution environmental problem can be solved following ways:

-improvement of quality of used fuel or improvement of work of an internal combustion engine,

-working out and introduction of neutralizers of exhaust gases.

The most effective method of cleaning of exhaust gases of internal combustion engines of cars is the catalytic method. Development of structures and methods of preparation of new generation of catalysts with the lowered contents of metals of platinum group for complex cleaning of exhaust gases of motor transport is an actual problem. In the JSC “ D.V.Sokol’skii Institute of Organic Catalysis & Electrochemistry” the monolithic block catalysts with the honey comb structure of the channels for the ecologic problem decision were developed. The developed effective catalysts correspond to standard EURO-3 by their characteristic. By the worked method the platinum metals were translated to colloid condition. It has allowed develop catalysts with the advanced surface adjustable by porosity, high activity and high stability. Samples of catalysts were investigated by means of electronic microscope EM-125K by a method of one-stage remarks. In the sample with Pt the small congestions of dense particles, congestions of dense particles which do not grow together in units are observed, and dispersed on a carrier surface. By data of electron-microscopic researches in the sample with Pt are observed the small studied catalysts differ high dispersion (8-10 nanometers), uniform distribution of particles of metal on the carrier. Preliminary results have shown stability catalytic properties of new systems on a basis of the metals colloids.

The most active catalyst has been tested in complex cleaning of exhaust gases of hydrocarbons and nitrogen oxides for a diesel engine - the generator. Its activity has made on СО-100 %, СНх-97 %, NOx-56.3 %. The developed catalytic neutralizers have passed successful tests at the various enterprises.

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