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The invention refers to processes for catalysts obtaining and apparatuses for catalytic cleaning of gas effluents from nitrogen oxide, carbon monoxide and other harmful effluents in the atmosphere and may be used in the electric power stations, boiler houses and other installations for gas effluents cleaning.

The process for catalyst obtaining consists in mixing the iron containing effluents, aluminium containing additives, binding, hardening and pore-forming additives. The obtained mixture is formed into the granular samples, e.g., by compacting method, it is dried and burned at the isothermic regimen at 480...540°C during 2...3 hours, than after cooling the particles are magnetized up to the saturation.

The apparatus for catalytic cleaning of gas effluents includes the Venturi tube body with a cyclone, and the Venturi tube neck, being made in the form of a cylinder, of diamagnetic material and is filled with a ferromagnetic catalyst, by that on the cylindre outside it is situated a solenoid and a voltage regulator connected to the alternative current source.

The result consists in increasing the gas effluents cleaning efficiency and environment protection.