ICT-12-40 THERMOSTABLE CATALYST FOR GAS PURIFICATION

**Description**
ICT-12-40 aluminum-manganese oxide catalyst is used at plants for steady-state and unsteady oxidation of organic impurities contained in industrial off-gases. The catalyst can be produced in various geometrical shapes - cylindrical granules, spheres, or rings, according to customer’s demand.

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**Technical appraisal and economic benefits**
- unique thermal stability (operating temperatures of up to 1000 °C);
- high catalytic activity, even in the presence of chlorine-containing compounds;
- high mechanical strength;
- no precious metals in the catalyst.

**Application areas**
ICT-12-40 is used for:
- removal of organic impurities and carbon oxide from industrial exhaust gases,
- catalytic incineration of methane and other hydrocarbons without formation of nitrogen oxides.

**Development stage**
Commercial production was launched in Novosibirsk.
The catalyst is supplied to the Monsanto Environ Chem company (USA) for the removal of toxic organic compounds from gases at purification plants operating in an unsteady mode (REVERSE-PROCESS).

**Patent situation**
Patents were granted in the Russian Federation (1996 and 1997).

**Commercial offers**
Catalyst supply.
Sale of licenses for the catalyst production and operation technology.
**Estimated cost**
To be negotiated.

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