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Intergovernmental council
for awarding Russian Federation Government
Prizes in Science and Technology

REFERENCE

for the work: "Invention and widespread introduction of competitive Russian isomerization technology and industrial complexes Isomalk for large-scale motor gasoline production, meeting European standards requirements", executed by the team of authors: Glazov A.V., Lugovsky A.I., Nikolaychuk V.A., Rozenberg L.S., Sannikov A.L., Fedorova M.L., Cherner A.M., Shakun A.N., nominated for Russian Federation Government Prize in Science and Technology by JSC Gazprom Neft in 2011.

The work of the authors, nominated for Russian Federation Government Prize, solves many problems of the Russian oil refinery in the field of high-quality motor gasolines production.

For many years Russia has been fallen behind the leading countries in ecological motor gasolines production. The main reason for such position is Russian refineries orientation primarily on catalytic reforming process in motor gasolines production. High content of aromatic hydrocarbons in the reformate, including the most cancerogenic of them – benzene, doesn't allow producing motor gasolines according to European standards. For this it will be necessary to develop new secondary processes, providing non-aromatic autocomponents production. The most important of such processes is light naphtha isomerization.

Relevant, but energy-intensive isomerization process requires state-of-the-art technologies application. Orientation only on western technologies leads to dependence on foreign procurement of equipment, catalysts, services and to capital outflow from Russia.

The authors of the presented work managed to solve the most important scientific-technical and social problem – to develop and introduce into the industry isomerization technology having advantages in comparison with the best foreign analogues. The team of authors developed:

- fundamentally new low-temperature isomerization catalyst SI-2 and its industrial technology. Large-scale catalyst production is organized in CJSC "Promcatalys" (Ryazan);