

JSC “Gazpromneft-Omsk Refinery”

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

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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”, accomplished by composite authors: Glazov A.V., Lugovskoj 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.

It is difficult to overestimate the authors work nominated for Russian Federation Government Prize. Domestic technology for producing of environmentally friendly high-octane component, which is sought-after in oil refining, was developed and introduced. Relevance of this work is determined by not only motor gasoline quality problem solving, but also the development of complete domestic process chain from designing to production.

Within the framework of this work:

- fundamentally new non-chlorinated low-temperature catalyst SI-2 based on sulfated metal oxides, which has high isomerization activity, stability, tolerance to catalytic poisons and allows to provide the isomerization of light pentane-hexane gasoline fractions, was developed. Catalyst is not only inferior in its characteristics to foreign analogues, but also exceeds them – in stability of isomerization process performances, guaranteed operational life and, the most important, it meets the high class of environmental safety;

- batch catalyst production is arranged at two catalyst factories in Ryazan and Angarsk;

- large-scale technological complexes Isomalk were realized. For example, the largest in Europe complex Isomalk-2 with capacity of 800 KTA, which allows to produce motor gasolines

