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To No of

To 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 gasolines production, meeting European standards requirements”,
completed by composite authors: Glazov A.V., Lugovskoy A.I., Nickolaychuck 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 presented work resolves current problems of Russian petroleum refining. Isomerization technology developed by composite authors drastically changed the situation, encountered at the end of last century. Russia had to face a problem of absence of domestic alternative for obtaining of high-octane non-aromatic component in large industrial scale as a result of toughening of world ecological requirements for motor gasolines. Complex scientific researches, conducted by the authors of the work, led to creation of new chloride-free catalytic systems and development of Russian low-temperature light naphtha isomerization technology based on oxide catalyst SI-2.

Increasingly greater number of Russian and foreign refineries selects Isomalk-2 technology through unconditional attraction of its economical and process advantages. They consist of high isomerization activity of SI-2 catalyst, catalyst stability to catalytic poisons impurities, long

