

IN SIGHT

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Simulation technology for treating of acid impurities natural gas supply to liquefaction

Keywords: liquefied natural gas, desulphurization, absorption, activated alkanolamine, acidic impurities, simulation, Aspen HYSYS, energy efficiency.

Abstract. The article deals with different absorption gas treating processes from acidic impurities, their analysis and made a selection of the most appropriate technologies for the purification of natural gas supplied to liquefaction. The simulation in program Aspen HYSYS for selected technologies, analysis and comparison of several criteria. Calculations of the basic technical indicators and expenditure of energy and materials technology gas purification was added. Based on these results, optimal technology was chosen.

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PETROLEUM PRODUCTS: technology, innovation, market

Pozdnyakov V.V., Kulikova I.A., Gavrilova I.A., Tyschenko V.A., Ovchinnikov K.A., Shestakovskaya T.V.

New domestic synthetic polyglycol oil Maspol-11, -22, -30

Keywords: industrial oils, polyglycol oils, import substitution, comparative tests.

Abstract. Currently, various industrial enterprises in Russia are widely Mobil Glygoyle oils, in particular Mobil Glygoyle 11 at heat electropower station. As part of the import substitution program in PJSC «MidVolgaNIINP» developed synthetic polyglycol oil Maspol-11, -22, -30 as analogues of Mobil Glygoyle 11, 22, 30. The comparative tests of physical-chemical and performance characteristics of the domestic oil Maspol-11 with a sample of Mobil Glygoyle 11 oil on the laboratory and bench equipment of PJSC «MidVolgaNIINP» and VNII NP JSC. Based on the test results, the possibility of substitution.

Public Joint Stock Company «Middle Volga Oil Refining Research Institute» [MidVolgaNIINP], Novokuybyshevsk; The All-Russian Research Institute for Oil Refining [VNII NP], Moscow

MATHEMATICAL SIMULATION

Logunov P.L., Turaeva N.Yu., Chernysheva E.A., Glagoleva O.F., Piskunov I.V.

Mathematical methods for estimation of distillates content in crude oil

Keywords: crude oil, light distillates yield, fractional composition, express methods of analysis, mathematical regressions.

Abstract. In the article are described several simple mathematical methods for estimation of distillates content in crude oil based on main physico-chemical properties. Several new regressions models are proposed, that was obtained from the basis of 200 oils of Russia and Kazakhstan. It is shown that transition from one-parameter models (based on density) to multiparameter (based on viscosity and pour point as well) can improve accuracy of prediction. These methods can be used for preliminary estimation of oil quality, received on refinery.

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CHEMMOTOLOGOS

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Modern methods of evaluation of thermal oxidative stability of petroleum products

Keywords: thermal stability, thermal oxidation stability, the device, a method, quality indicators, norms, values.

Abstract. Test methods and schemes of devices of an estimation of thermal oxidation stability jet and diesel fuels, oils for aviation gas turbine and piston engines and reducers of helicopters, gear oils, liquids for aviation hydrosystems, and also norm on the indicators established in the standard documentation for listed products.

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CONFERENCES. SEMINARS. EXHIBITIONS

XI annual international seminar on standardization / Post-release

3rd international conference "Russia and China: Taking on a New Quality of Bilateral Relations" /

Post-release

MATERIALS of the PETROCHEMICAL and REFINERS ASSOCIATION

Extracts of the protocol #135 of ANN board meeting of 17.05.2017 / Subject – Measures to ensure the competitiveness of Russian oil refinery; About gas condensate processing