

JOINT EVENT

8th International Conference on **Petroleum Engineering**
&9th International Conference and Expo on **Oil and Gas**

October 15-16, 2018 | Rome, Italy

Modelling of the physical properties of oil blending**Timur Chis**

Ovidius University, Romania

For safe transportation of crude oil it needs to meet the conditions and quality pumpability. In Romania are extracted over 100 types of crude oils and their transport requiring special conditions of transport (is necessary to protect oil pipe against to frozen – congelating and asphalt oil crude). In practice these crude oils are transported and mixed without ensuring final product quality, much needed refineries (especially obtain final products) . Therefore this material present new technologies of blend of crude oils (such crude oil blending aim being to achieve final products with high processability) A method of improving the pumpability is one in which various additives are used (to lower the freezing point and / or viscosity). These additives may be polymers or other chemical agents, which modify the wax crystals precipitate from the solution, by one of the following mechanisms [1]: modifier comes out of solution at a temperature slightly higher than the temperature of equilibrium of the solution paraffin; the modifier out of the solution at equilibrium of the solution to co-crystallize with paraffin and paraffin; modifier comes out of solution at a temperature slightly lower than the temperature of equilibrium of the solution is absorbed in paraffin and the paraffin crystals. The modifier present in the solution, acting through one of the mechanisms above, the wax molecules tend to remain as separate entities, by reducing the cohesive forces between the crystals and the forces of adhesion of the wax crystals and other surfaces.

Recent Publications

1. Chis T. –Chemical in the oil industry, International Workshop New trends in Oil, Gas and Petrochemical Industry, Constanta, 24-25 May 2018,
2. ASTM D86 - 11b Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure,
3. ASTM D97 - 11 Standard Test Method for Pour Point of Petroleum Products,
4. Chis T.-Roumanian Oil Clasification,,
5. Chis T.-Optimisation of Roumanian Oil Blend, SGEM Conference, Varna, 2012, pp. 314-320, SGEM Conference Proceedings, ISSN 1314-2704,
6. Koncsag C.I.-Fizico-chimia petrolului, Ovidius University Press, Constanța, 2003,

Biography

Timur Chis I has her expertise in oil transporting and physical and chemical products blending. He is teacher of the OVIDIUS UNIVERSITY CONSTANTA, FACULTY OF APPLIED SCIENCE AND ENGINEERING. About 28 years, Timur Chis is engineer and operation manager of the Oil Transporting COMPANY (CONPET ROMANIA) and teacher of the more 300 students degrees of the Ovidius University. More papers is published by Timur Chis (100 papers and 10 books), and in this years, Timur Chis is Ph D. Professor for the students.

tchis@univ-ovidius.ro