

Analysis and classification of physical and chemical methods of fuel activation

Viktoriya FEDORCHAK^{1, *} and Taras FEDORCHAK²

¹ *University of Hull, Hull, School of Politics, Philosophy & International Relations,
Cottingham Road, Hull, UK, HU6 7RX*

² *National Aviation University, Institute of Environmental Safety, Kosmonavta Komarova Ave 1, Kyiv, Ukraine,
03680*

Abstract. The offered article explores various research studies, developed patents in terms of physical and chemical approaches to the activation of fuel. In this regard, national and foreign researches in the field of fuels activators with different principles of action were analysed, evaluating their pros and cons. The article also intends to classify these methods and compare them regarding diverse desired results and types of fuels used. In terms of physical and chemical influences on fuels and the necessity of making constructive changes in the fuel system of internal combustion engines, an optimal approach was outlined.

Keywords: fuel activation, physical and chemical methods, combustion engine.

* Corresponding author: vujenour@gmail.com; V.Fedorchak@2011.hull.ac.uk