

BIODIESEL FUEL BASED ON BIORENEWABLE RAW MATERIALS



A pilot plant for producing biodiesel fuel from bio-renewable raw materials

Areas of Application

To be used in compression-ignition engines in its pure form or mixed with petroleum diesel fuel

Specification

The product meets the requirements of EN 14214 (European) and DSTU 7178:2010 (Ukrainian) standards of alternative fuels for diesel engines

Stage of Development.

Suggestions for Commercialization

IRL4, TRL4

Pilot batches of products based on various vegetable oils can be produced upon request

IPR Protection

IPR3

Advantages

As compared with the analogous products based on high-toxic and non-bio-renewable methanol this product is based on environmentally safe, non-toxic, and bio-renewable ethanol. The product ensures high power and ecological characteristics of engine operation.

The bio- and petroleum diesel mixtures (with a bio-component content of 20–100%) have as good power characteristics as the high-quality petroleum diesel fuel and dominate over it in terms of their ecological indicators. In particular, they produce much lesser harmful emissions of CO₂ (by 1–5%), NO_x (by 15–20%), CO (1.2–1.3 times lower), and incomplete combustion products (1.9–3.3 times lower)

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