

## REDUXCO®

Is a unique and award-winning <sup>1</sup> product that improves the efficiency of hydrocarbon fuels (coal, lignite, gas, heavy and light oils) by affecting the speed of the combustion process chain reaction, reducing surface tension of coal and causing complete combustion of soot and naphthalene's.

It is most commonly used as an additive to hydrocarbon fuels, reduces fuel consumption and emissions of greenhouse gases (CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>)



It is a selective catalyst which can be dispersed in aqueous and organic solutions, in concentrations 0.68 ml to 2.8 ml per 1000 L. of liquid.

REDUXCO is REACH-Certified and compliant with EN-590-2013 standard. The catalyst was registered at the European Chemical Agency as a new chemical compound 2009.

Is not classified as hazardous to human health or the environment and therefore safe to use and works as a corrosion inhibitor.

### Main Benefits:

- Reduction of fuel consumption by 4-12% (depending on application area)
- Reduction of harmful gas emissions, NO<sub>x</sub>, CO<sub>2</sub>, SO<sub>x</sub>
- 30-90 % Reduction of PM, SOF, THC, CO
- Maintains good conditions of Diesel engines
- Reduces maintenance cost
- Reduction of smoke
- Easy to apply
- Already undergone several testings with demonstrated results
- Safe to human health and the environment.
- Safe for the Engine
- Can be used on all ON fuels

<sup>1</sup> **Brussels Innova** - Diploma and Gold Medal for "REDUXCO® fuel catalyst" – 2009

**Polish Technology Platform of Biofuels** - Award for the innovation in biofuel technology production – 2009

**Polish Ministry of Science and Higher Education** – Diploma; Achievement in innovation technology - project "REDUXCO fuel catalyst" - 2010

## REDUXCO Road transport:

REDUXCO affects the speed of combustion process chain reaction. When used in diesel engines it reduces fuel consumption by 4% to 12%, depending on engine working point

### Benefits:

- Decreased consumption of fuel up to 12%.
- Decreased emission of PM particulates up to 74%.
- Decreased emission of carbon oxides up to 90%.
- Decreased emission of unburned hydrocarbons (THC) up to 40%.
- Decreased Solvent organic fraction (SOF) up to 62%
- Reduced exhaust fumes



### Additional Benefits:

- Improved engine efficiency (speed and flexibility)
- Easier starting in difficult conditions
- Engine protection
- Limited fouling
- Quieter engine
- Anti-corrosive
- Antibacterial (Removes bacteria from the oil)

By adding 10 ml of REDUXCO per 100 litres of fuel ensures that you realize the full potential of the fuel and your engine.

**REDUXCO catalyst does not impair physical or chemical properties of fuel<sup>2</sup>.** Dramatically reduces emission of PM (*Particulate Matter*), HC (*hydrocarbons*), and CO (*carbon oxide*)<sup>3</sup>.

REDUXCO catalyst has undergone several trials of testing in laboratory and in real time conditions on different types of engines for Trucks, Ships and Heavy Machinery (Heavy oil driven engines)

MAN, MTU, Deutz, Caterpillar, Iveco Aifo, Volvo, Wartsila, Nanni, Hyundai and DAF

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<sup>2</sup> Assessment of REDUXCO® catalyst influence upon the physio-chemical properties of heavy fuel oil – Air Force Technical Institute of Warsaw

<sup>3</sup> [The global warming potential of CO is three times that of CO<sub>2</sub>.](#)