www.flexoeco.com

ECO PILL
ECO FXO

The new ECO™ formula reduces

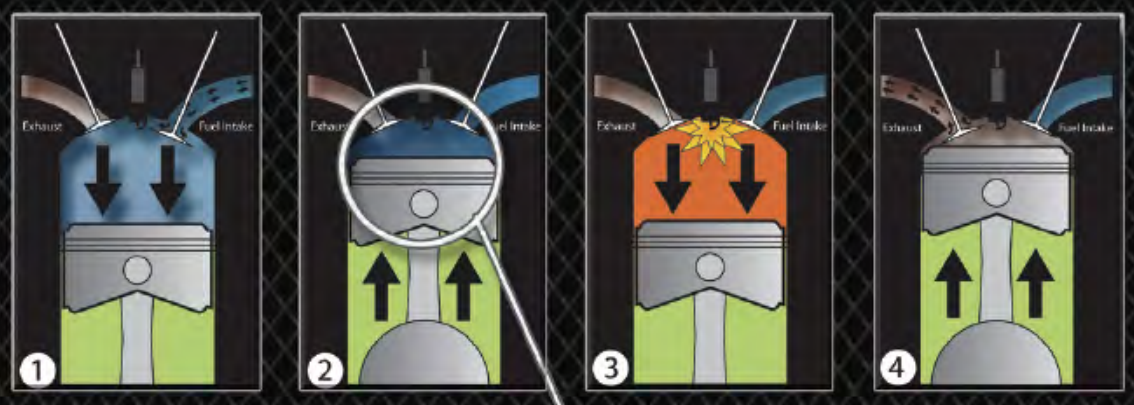
- content of harmful substances in exhaust gas emissions up to 62%
- fuel consumption up to 10%

FLEX-O products are patented products. They are sold worldwide.

All laboratory tests showing how the products work and tests confirming their efficiency are based on scientific procedures developed by organizations such as **SAE** (Society of Automotive Engineers), **ASTM** (American Society for Testing and Materials), **QIRC** and **US EPA** (United Stated Environmental Protection Agency), **SGS**.

How do ECO PILL and ECO FXO function?

The basis of a four stroke engine is compression and expansion. Without adequate valves, there is not enough fuel compression and therefore no efficient combustion, and the explosive expansion is reduced. ECO PILL and ECO FXO restore the engine to its original state, meaning less fuel consumption and burning of the fuel in a more efficient way.
ECO PILL and ECO FXO can quickly decrease the problem and restore optimal engine operation. It saves money on fuel and future vehicle maintenance.



1: Intake
2: Compression
3: Expansion
4: Exhaust

what is the so-called blow by?

Hot gasses from the combustion pass by the compression rings into the cylinder during the third stroke of the engine. This means that open flames and exhaust particles enter into rotating engine parts. This results in reduced engine power.

injectors, fuel delivery system and exhaust

Fuel travels from the tank through the fuel delivery system. It then enters the cylinders through the carburetor or fuel injectors. It is then ignited and expands inside the cylinder. In order to achieve an optimal fuel burn, there has to be a suitable fuel to air ratio, the fuel/air mixture has to be homogenous and remains (deposits) may not interrupt the fuel flow from the tank to the engine. **CLEAN THEM.**

Mixture of fuel and ECO PILL or fuel and ECO FXO cleans carbon deposits and dirt from the fuel delivery system. It does not cause corrosion and is therefore suitable for all engine types. It also has dispersive effects, as it disperses about 80% of asphaltene in gasoline and about 72% in diesel fuels. Insoluble particles within the fuel are reduced by 24%.

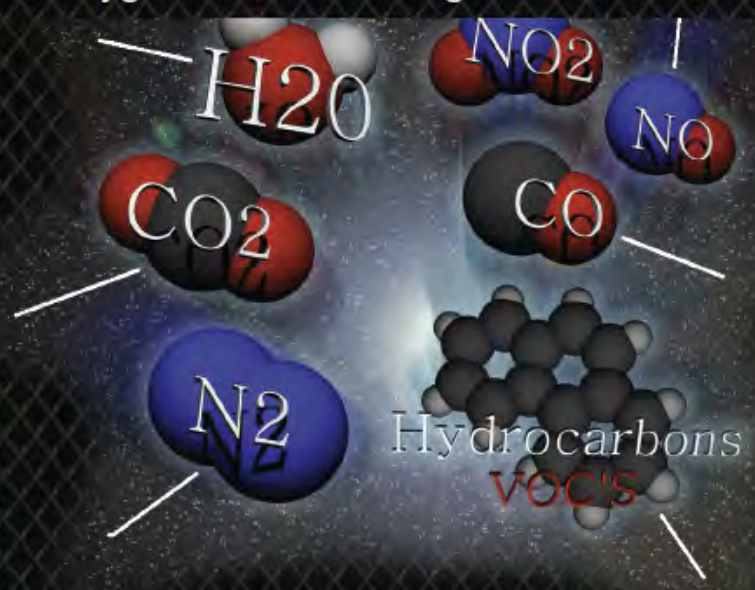
Effects of the powder cannot cause engine malfunction, and it efficiently helps to clean the engine from deposits and resins, by gradually burning them off with fuel which leads to optimal operation within given conditions.

Testing has shown a decrease in the time of induction of about 40%, which results in reduction of resin buildup in storage conditions (fuel tanks). Using ECO PILL and/or ECO FXO reduces the surface tension between oil and drops of water by about 3 times, causing a quicker extraction of water from diesel fuel. At the same time, this property causes creation of a larger number of droplets during the process of fuel atomizing, increasing the fuel atomization by about 23%, resulting in a better burn.

Gas content testing of fuel and ECO PILL or fuel and ECO FXO shows a reduction of harmful substance content in exhaust gasses from 50% to 62%, depending on the type of vehicle. Reduced fuel consumption in commercial vehicles from 5.5% to 4.48%, and in light vehicles from 12.5% to 8% has also been recorded.

Liquid fuel does not burn in its liquid state, but in its gaseous state. In order to burn, it is necessary to atomize it first, creating a mist of very fine droplets. As these droplets move towards the front end of the flame, temperature quickly rises, leading to vaporization of light droplet particles. Solid asphaltenes, representing heavy particles agglomerate into compact structures, since all evaporating content has been combusted.

Mechanism leading to combustion of heavy particles is oxygen diffusion through solid matter pores. Diffusion within solid matter is usually a slow process, with a limited speed of combustion. Since the time of solid matter combustion is proportional to the square of the corresponding diameter of solid asphaltene agglomerations, it contributes to the combustion problem, increasing the time of combustion. The typical duration of 0.1 seconds in the flame zone is not enough to initiate combustion.



This creates uncombusted carbon remainders (sooth) which contributes about 40% to 80% of total particle emissions into the environment.

Nitrogen (N_2) is 78% of air, and it mainly passes through the engine.
Carbon dioxide (CO_2) is produced during combustion through binding of carbon atoms from fuel to oxygen.
Water vapor (H_2O) is also created during combustion through binding of oxygen with hydrogen from the fuel. Hydrocarbon chains separate into oxidants when exposed to sunlight, react with nitrogen and create ozone at the ground level, the largest component of smog.
Nitrous oxides (NO_2 and NO) contribute to smog which irritates human muscle membranes.
Carbon monoxide (CO) is simply very toxic, odorless and without color.

CALCULATION OF SAVINGS ACHIEVED THROUGH USE OF ECO PILL OR ECO FXO

fuel filling

Calculation is based on filling 60 liters of fuel at a price of 9,75 kn/l

If a fuel saving of has been achieved	10% =	XX,XX XXX
If a fuel saving of only has been achieved	8% =	XX,XX XXX
If a fuel saving of only has been achieved	5% =	XX,XX XXX

ECO PILL and ECO FXO *reduce harmful substances in exhaust gas emissions up to* **62** *%, enabling your vehicle to*

PASS THE ECO TEST

the ECO TEST

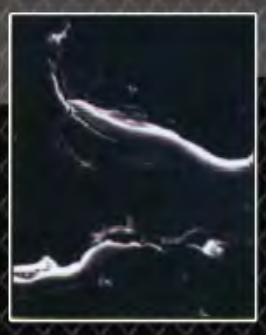
Calculation is based on the average price needed to conform the vehicle to requirements of exhaust gas emissions

1 ECO PILL PELLET	XX,00 XXX
or 1 *engine wash (depending on the car)*	XX,00 XXX
or 1 *catalytic converter (replacement)*	XXX,00 XXX
or 1 *visit to the automotive mechanic (depending on the service required)*	XXX,00 XXX

RECOMMENDATION: For quality cleaning of injectors, valves and fuel delivery systems, at the time of your next two fuel fillings, add ECO PILL or ECO FXO. Repeat the process every 2000 to 3000 driven kilometers.

what are ECO PILL and ECO FXO?

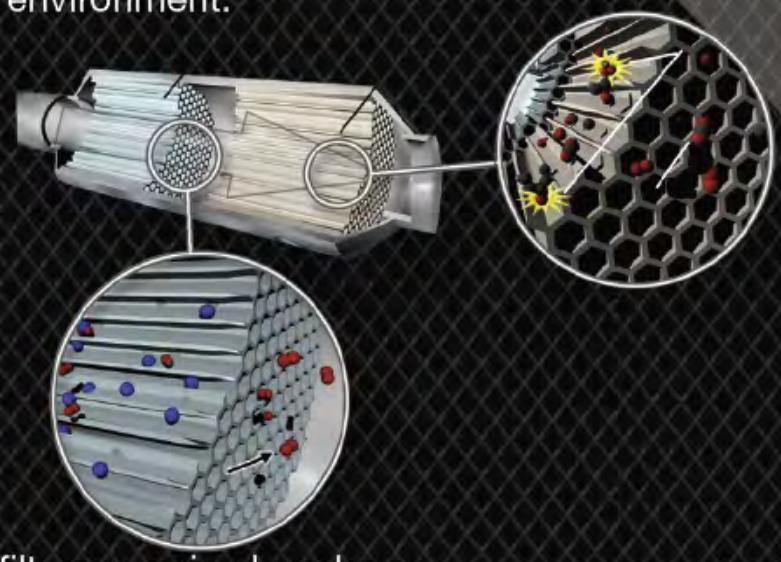
ECO PILL and ECO FXO are concentrated 100% organic compounds without additives. They are specially synthesized to overcome problems related to high asphaltene contents in modern fuels. They do not change the molecular structure through a chemical reaction, but rather they dissolve the agglomeration into smaller sheets of asphaltene. The effect is visible under microscope.



4140 x magnification
Breakdown of asphaltene into particles

290 x magnification
Breakdown of asphaltene in a solution of gasoline and ECO PILL or ECO FXO

All of the mentioned molecules are natural to our environment. What is unnatural is the quantities produce. Although CO2 contributes to global warming, it is not as toxic as hydrocarbons, carbon monoxides or nitrogen oxides. Hydrocarbons are your fuel. Some remain in the form of deposits and become a part of exhaust emission into the environment.
By stopping emissions where they start, you ensure the maximum lifetime of your catalytic converter. Not only do you save money, but you are also helping the environment.
You are helping yourself too, by passing the eco-test.



effects of ECO PILL and ECO FXO products:

- removal of deposits inside fuel tanks,
- longer intervals between cleanings of the fuel tank, and filters remain clean longer,
- dissolve in fuel quickly and do not leave any residue that could plug-up filters,
- fuel is stabile and contains less deposited materials, there is less deposits on the bottom of the fuel tank, which greatly contributes to maintenance,
- they keep the injection system clean,
- eliminate engine clanging, rattling and heating up which causes carbon deposits,
- products renew the engines lost power back to optimal working levels,
- drops of water within the fuel are smaller, dispersed and do not remain in the fuel tanks,
- reduction of fuel consumption,
- asphaltenes are broken down to many smaller parts so they can be dispersed through the fuel, enabling a more complete combustion,
- reduction of fuel consumption up to 10%,
- reduction of harmful substances in exhaust gas emissions up to 62%.

FLEX-O™
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ECO™

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FLEX-O™

www.flexoeco.com

ECO pill

1 pellet
for treatment of
15-60 liters of fuel

ECO

for treatment of quantities
above 400 liters of fuel

ECO DTM™

motor oil stabilizer for
small vehicles

ECO STABIFLEX™

motor oil stabilizer for
commercial vehicles
and heavy equipment