

Ethos Environmental, Inc.

ETHOS FR-FREQUENTLY ASKED QUESTIONS

Q: What is Ethos FR?

A: Ethos FR is a product that is added to fuels to make engines burn fuel more completely. Ethos FR is non-toxic, non-hazardous and works with any fuel used in cars, trucks, buses, ships, trains and generators. Ethos FR is free of carcinogens and is not derived from petroleum. It utilizes cleaning and lubricating esters suspended in a mineral oil base. Ethos FR increases fuel economy and reduces emissions. Commercial fleets on average increase fuel mileage between 7% and 19% and reduce emissions by more than 30%. When added to fuel, Ethos FR reduces the emissions of hydrocarbons (HC), nitrogen oxides (NOx), carbon monoxide (CO), particulate matter (PM) and other harmful products of combustion.

Q: How does Ethos FR work?

A: Ethos FR reformulates any fuel, causing two important benefits. The first benefit is the added lubricity to the engine. The second is adding cleansing properties to the fuel. All of the internal components benefit from the cleansing and lubricating action including the fuel lines, filters, carburetors, spark plugs and injectors. Ethos FR also conditions the engine seals, keeping them tighter longer. A cleaner, more lubricated engine runs smoother, requires less maintenance and reduces engine heat significantly. Horsepower returns closer to the manufacturer's specifications. Ethos FR removes carbon deposits that cause fuel to combust incompletely, resulting in wasted fuel that creates toxic emissions. The combination of cleaning and lubricating esters in Ethos FR stabilize the fuel without changing its specifications.

Q: What is an Ester?

A: An ester is a group of liquid or solid compounds formed by the reaction of an acid and an alcohol with the elimination of water. There are organic and synthetic esters. For example most natural oils, fats and waxes are esters. More common esters are beer, soap and polyester used in clothing. Ethos FR contains non-toxic, non-hazardous synthetic esters.

In Ethos FR a group of low molecular weight esters clean the dirty deposits formed by fuels and the combustion process. These deposits lower performance of an engine making it less fuel-efficient causing it to exhaust raw fuel, which is the primary contributor to pollution. A group of high molecular weight esters lubricate the engine surfaces as the fuel runs through it. Their molecular structure is small enough to penetrate the metal and form a lubricating layer between surfaces. This process allows the moving components of an engine to operate smoother and with less power-robbing friction and heat.

Q: Is Ethos FR an Additive?

A: EPA registered additives are derived from petroleum. Ethos FR is a reformulator, even though you "add it" to the fuel. Ethos is not derived from petroleum and is non-toxic and non-hazardous. Ethos FR cleans and lubricates the internal parts of the engine without the use of petroleum derived products commonly found in fuel additives allowing the engine to burn fuel more efficiently thereby, reducing emissions.