

HYDRA



FD-66 Fuel Dryer & Ethanol Stabiliser Additive

Removes Water & Stabilises All Fuels Containing Ethanol

Works in Petrol, Diesel & all other Liquid Fuels



HYDRA®

Features & Advantages

- ◆ Absorbs water from fuel tank.
- ◆ Helps stabilise to-days ethanol levels in fuels.
- ◆ Cleans fuel injectors.
- ◆ Helps prevent carburettor and fuel filter icing.
- ◆ Protects against rust and corrosion.
- ◆ Safe in turbocharged and non-turbo charged engines.
- ◆ Provides better cold temperature starting.
- ◆ Will not harm catalytic convertors.
- ◆ Improves fuel economy.
- ◆ Helps restore lost power.
- ◆ Dose rate 1 litre treats up to 300 litres of fuel.
- ◆ For best results use every other refill.

The Problem

Modern fuels contain more and more ethanol which is an oxygenator.

This ethanol acts as a combustion aid, it helps in cold starts, and reduces carbon dioxide and hydrocarbon emissions when the engine temperature is too low for efficient combustion.

A common problem is that mixtures of hydrocarbon fuels and ethanol, although miscible at ambient temperatures in a wide range of proportions they suffer sensitivity to water contamination.

This water can cause a separation into corrosive acidic water and hydrocarbon phases.

This corrosive water is highly undesirable for engines and metal components in the fuel system.



Ethanol, Petrol and Diesel

Only a small amount of water (<0.06%) is required to cause the ethanol to separate from all hydrocarbon liquid fuels.

The very low quantity of water required to cause component separation offers an explanation as to the limited stability of ethanol/fuel mixtures.

Water present in the air also causes condensation in the fuel tank which is then absorbed into the fuel mixture giving component separation.

Petrol

Similar problems to the above diesel fuel occur with petrol that contains ethanol.



The presence of water in petrol, diesel and other liquid fuels can lead to a number of problems for the engine and its components.

Diesel acts as a lubricant to the high pressure fuel pump and this helps preserve the life of moving parts. However if water is present this reduces the diesels lubricity effect which will accelerate wear on parts.

The presence of water in any fuel increases the rate of metal corrosion and can cause a lot of damage to the engine. Water in fuel also gives symptoms that the engine is starved of fuel, resulting in costly repair work.

Diesel, Petrol and Heating Oil Bugs also commonly occur when there is water in fuels. Most fuel bugs need water to grow and when this is present the bacteria rapidly reproduce causing more corrosion and clogging filters, fuel lines, pumps etc.



Description

POWERFUL CO-SOLVENTS

- ◆ Eliminates water from the fuel tank.
- ◆ Protects against rust and corrosion.
- ◆ Prevents carburettor and fuel system icing.
- ◆ Suitable for petrol and diesel engines.



The powerful co-solvents in **Hydra FD-66 Fuel Dryer & Ethanol Stabiliser** immediately break down the surface tension between water and fuel.

This allows the two separate fluids to form a stable and safe mix which is free from detectable traces of water.

Hydra FD-66 Fuel Dryer & Ethanol Stabiliser absorbs moisture that accumulates from condensation in the fuel tank.

This helps prevent excess water triggering a phase split of the fuel.

This split occurs when the water amount in the fuel rises above 0.065% (600ppm).

By absorbing the water in fuel, **Hydra FD-66 Fuel Dryer & Ethanol Stabiliser** holds it in suspension until it is burned by the engine under normal combustion.

APPLICATION

Dose rate: 10ml treats 3 litres of fuel.

As a fuel dryer: Use every 6 months at refuel.

As an ethanol stabiliser: Use every refill.

Petrol Grades

E5 contains up to 5% ethanol.

E10 contains up to 10% ethanol.

LONG TERM STORAGE

BOATS



CLASSIC CARS



FARM VEHICLES LIKE COMBINED HARVESTORS



Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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