



# FUEL SOLUTIONS

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# CHEMICALS

## ERYAK-200

General fuel oil treatment product. It breaks the paraffin and water molecules in the fuel and helps a better combustion. It thins the fuel and provides a better fluidity.

## ERYAK-210

It provides full combustion efficiency for the fuel oil and gets the maximum output. It can be used in both diesel machine and boiler fuels. You may use it even in distilled fuel. It prevents combustion surfaces from carbon deposits, reduces the formation of smoke particles and reduces corrosion resulting from the low temperatures in the system. The treated fuel-oil with ERYAK 210 burns completely and doesn't leave a deposit behind.

## ERYAK-220

Efficient fuel oil additive in diesel motors and boilers reactivates with vanadium components and raises their melting point. The reactivated vanadium components remain solid. It also increases the combustion temperature, solid remains of vanadium components burn in high temperatures and their ashes are easily ejected by the gas stream, so no sulfur or sodium formations, remains at exhaust valves and turbochargers.

## ERYAK-280

It cleans all the bacteria and microorganism colonies in fuel system, moreover it improves combustion by stabilizing the fuel.

## SOOT REMOVER

Powder product which cleans the soot layers at the combustion chamber and exhaust systems. It drops the ignition point of soot and ash to 250 °C. The soot and ash deposit thus ignited, leaving an easily removed ash.

## SOOT REMOVER LIQUID

Liquid form of Soot Remover.

## ERYAK-500

ERYAK-500 (3 in 1 Fuel Conditioner) is highly concentrated innovative product for fuel and diesel oils. It is 100 % organic and contains advanced compounds, specifically designed to increase fuel energy efficiency. It has superior sludge dispersing and dissolving property. It has unique properties to eliminate heavy metal deposits such as vanadium, lead and sulfur contaminants in fuel. It starts to perform when it mixes with fuel or diesel oil till the combustion finishes. ERYAK-500 homogenizes the fuel, keeps clean all the lines, protects the system from corrosion and it cleans the dirt and rust from the system on ideal usage. It prevents fuel tanks from sludge formations. It does not create ash and minimizes the emissions and deposits and prevents from high and low temperature corrosion. Non-hazardous and environmental friendly.

## ERYAK-LS EXTRA

ERYAK-LS EXTRA is lubricity improver for low sulfur fuels. With the recent IMO regulations, in Emission Control Areas it is forbidden to use fuels have sulfur more than 0,5 %. With the adoption of the desulfurization process, the fuels lose their inherent lubricity. The fuels which have diminished lubricity characteristics do not provide sufficient protection for engine parts. This will cause wear of fuel pumps, valves and injector nozzles, fuel pump seizures, and mechanical problems. ERYAK-LS EXTRA increases the lubricity in the low sulfur fuels without increasing the percentage of sulfur in the fuel and protects engine from above dangers, more over with corrosion inhibitors inside, it protects engine parts from corrosion and lengthen its useful life.

## ERYAK-CFIs

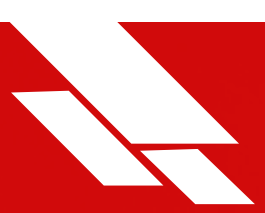
ERYAK-CFIs is a pour point depressor and cold flow properties improver of marine distillate fuel. It is also suitable for dissolving of Diesel Oil Paraffin contaminants in a same/specified dosage. A typical distillate fuel contains up to 30 per cent paraffins. These paraffins are the least soluble constituents in a fuel, and can give rise to operability issues as a fuel's temperature is lowered. These issues include the formation of wax crystals, which can block fuel lines and filters. Once the wax has formed it is difficult to dissolve back into the fuel. ERYAK-CFIs reduces the wax formation and risk of wax accumulation and fallout.



## PRODUCT APPLICATION & DOSAGE TABLE

APPLICATION	PRODUCT	DOSAGE
Lubricity Improver	ERYAK-LS EXTRA	1 L / 20 tons of MGO
Cold Flow Improver	ERYAK-CFIs	1 L / 2 tons of fuel, in case of poor response dosage can be increased to 1 liters to 1 thousand liter of fuel (1:1000 L)
Sludge remover	ERYAK-200	1 L / 5 tons of fuel oil
Combustion Improver	ERYAK-210	1 L / 5 tons of fuel oil
Vanadium Control	ERYAK-220	1 L / 5 tons of fuel oil
Organic growth control in Distilate Fuel and ULSFO	ERYAK-280	0,2, 0,4 L / 1 ton of fuel for preventing, 2,0 L / 1 ton of fuel for contamination, 10,0 L / 1 ton of fuel for filter blockage
Demulsifier for Heavy Fuel Oil (HFO)	ERYAK-300	"The dosage should be done as per taking into consideration the volume percentage (%) of water as recorded in the fuel analysis. 1 / 500- 1 / 5000 L of fuel
Heavy Oil – Sludge remover, Combustion Improver, Vanadium Control	ERYAK-500	1 L / 20 tons of IFO 180 / IFO 380, 1 L / 25 tons of marine diesel oils
Soot Remover	SOOT REMOVER	1-2 L / 10 tons of fuel





# TEST KITS

## COMBINED TEST KIT (WIO, TBN TEST & VISCOSITY KIT)

Combined Test Kit is designed for checking lube oil when using ULSFO or the new VLSFO introduced through IMO 2020. Combined Oil Test Kit contains all of the necessary equipment and consumables for oil condition monitoring needs. The Test Kit comes complete with tests for Water in Oil, Total Base Number (TBN) and Viscosity comparison test.

## TBN TEST KIT

Test Kit for analysing oil alkalinity.

## WIO TEST KIT

Test kit for analysing water content in lubricating oil and fuel oil.

## VISCOSITY TEST TOOL

A tool for simply comparing viscosity of fuel and lube oil.



## COMPATIBILITY / STABILITY TEST KIT

Compatibility/ Stability test is the perfect way to make sure if the VLSFO is stable and compatible. The Compatibility Test Kit will show if the fuel is in danger from asphaltenic sediment formation. Compatibility/ Stability test Kit provides a quick and easy tool for understanding fuel compatibility necessary to mix or blend residual fuel oil.





# Natural life is a chemical product

We hope to share our experience of over 40 years with you.

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