

# A1SAR

Diesel Fuel Optimizer



FLUIDDYNAMICS

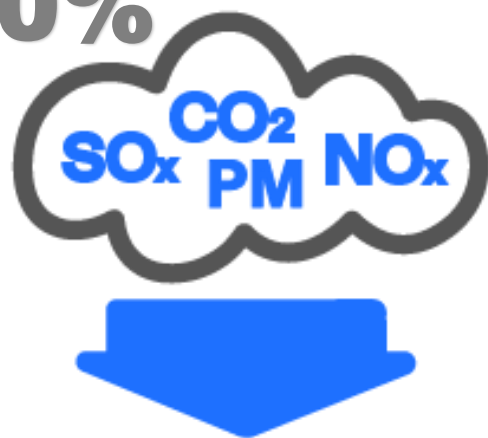
***SAVE***  
***20% plus***  
**in Diesel Fuel**  
**costs with**  
**A1SAR**



Finally, a product based on organic mineral compounds and the most Advanced Biotechnology Enzyme Catalysts and specially engineered to result in a greener diesel fuel energy, that has various beneficial qualities such as improved combustion efficiency, reduced greenhouse gas emission, and reduced byproducts. This results in a greener premium diesel fuel product Without the Sulfur!

**Significantly reduces**  
**Greenhouse Gases**

**90%+**



By treating your diesel fuel with our patented chemistry, A1SAR-LD704 optimizer to your diesel fuel that offers savings of 20% plus of the fuel consumption, boosts engine power as fuel becomes greener, reduces overall GHG emissions by up to 90%, prolongs engine lifetime, and reduces maintenance and parts replacement of the diesel engine.





A1SAR is a non-anthropogenic, mineral entrained phyto-aqueous solution that is a plant/mineral solvent based product, not a petroleum derivative with a neutral pH of 6.9 and non-flammable.

Our product is a biometric liquid that activates when diesel fuel is present. It is a food grade liquid with a viscosity of 100 cps that can be stored for up to one year.

Effective in all diesel fuels, including Ultra Low Sulfur Diesel (ULSD) and biodiesel blends.

A1SAR is safe for use in all diesel engines and will not void the engine manufacturer's warranty when used as directed.












Once A1SAR is added to the fuel, our formulas biological enzymes can crack the bonds between carbon to carbon (C-C), and carbon to sulfur (C-S) and produce oxygen and hydrogen compounds and sulfate by-products, etc. The desulfurization process is achieved by the catalytic process between bacteria. The biological enzyme catalysts do not form any toxic by-products or side reactions and create an enhanced hydrocarbon fuel.

Effective in all  
Diesel Fuel  
Types

#1 Diesel Fuel  
#2 Diesel Fuel  
#4 Diesel Fuel  
Bio-Diesel Fuel



## Why is our diesel fuel treatment optimizer made for refineries, bulk fuel importers and end users the best in the world?

-  Save 20% plus on diesel fuel costs. Increase your miles or hours per gallon.
-  Upgrades the fuel to premium grade.  
Removes Sulfur by 100%, removes oxidation and gums, and disperses water, humidity, and heavy metals.
-  Reduces overall GHG emissions 90%+:  
CO, CO<sub>2</sub>, SO<sub>x</sub>, NO<sub>x</sub>, and other PM.
-  Cleans & clears the entire fuel system of the engine.  
Cleans and opens the fuel injector system blockages.  
Eliminates soot build up from engine.
-  Reduces engine temperature and overall engine wear and tear.
-  Provides increased lubricity to diesel fuel prevent premature engine wear and tear.
-  Eliminates moisture, water and fungi in diesel to protect from corrosion in fuel tank.
-  Significantly reduces sodium (salts) within diesel fuel.
-  Increases cetane level.
-  Decreases opacity by 60%
-  Product is Geneva Carbon Credit registered with dollar for dollar cash carbon credit rewards. **NO COST.**

Ask us about a  
**FREE TEST TRIAL.**



Marine

Transportation

Railroad

Mining

Civil / Construction

Power Generation

Heavy Equipment

Oilfield Services





### Typical Physical Properties

Freeze/Pour Point	= Below 0° F
Flash Point	= 120° C / 248° F
Viscosity @ -10°C	= 140cST
Viscosity @ 25°C	= 61 cST

### Product Specifications

Appearance	= Hazy Pink
Color	= Pink
Specific Gravity @ 60/60°F	= 0.9141
pH	= 6.5
lbs/US gallon	= 7.612 lbs/gal
Odor	= Agri Oil
D.O.T. Shipping Regulations	= None required
Air Transport Regulations	= None required
Hazard Description	= Not Harmful
Biodegradability	= Yes
Chemical Family/Class	= Organic Mineral Solvent

### Dosage Concentration

1 ounce will treat 8 gallons of diesel fuel.  
 1 liter will treat 1,000 liters of diesel fuel.  
 1 gallon will treat 1,000 gallons of diesel fuel.

### Packaging Options

This product is available in 1 quart HDPE bottles, 1 gallon HDPE F-Type jugs, 5 gallon pails, 55 gallon drums, 50 liter pails, 275 gallon IBC totes, & 330 gallon IBC totes.

**Achieve  
GHG  
Emissions  
Compliance  
with  
A1SAR-LD704**



# Case Studies

## Ultra Low Sulfur Diesel Treatment

### GMC 6.2 Liter Diesel Engine \*

Total Miles	MPG % change
419	20.50 % change

### #1 - 2023 Peterbilt 579 Ultra Loft Diesel Engine \*\*

Total Miles	MPG % change
749	20.02 % change

### #2 - 2023 Peterbilt 579 Ultra Loft Diesel Engine \*\*

Total Miles	MPG % change
1287	20.05 % change

## Low Sulfur Diesel Treatment

### Volvo Tractor 465 HP Diesel Engine \*

Total Miles	MPG % change
6439	44.85 % change

### Peterbilt 500 HP Diesel Engine \*

Total Miles	MPG % change
2059	52.11 % change

- Tests performed in California by a certified EPA and CARB testing facility
- Tests performed throughout the USA

# A1SAR

is currently  
treating over  
2,951,533 gal/day or  
89,775,894 gal/month  
diesel worldwide.







**United Nations**  
Framework Convention on  
Climate Change



## The Only Diesel Fuel Optimizer additive that is Carbon Credit Approved

The A1SAR diesel fuel enhancer is Geneva Carbon Credit registered and approved for a dollar for dollar carbon credit refund for end users, thus providing **A1SAR at NO COST** while saving money on diesel, reducing emissions and maintaining a more extended asset life.

**Let us show you how to save money while using our A1SAR formula at NO COST.**

Let us harvest the rich carbon credit of climate finance from the UNFCCC/CDM World Bank Geneva Carbon Credit by creating carbon credit assets.

**US Patent** US8497108B2

**World Intellectual Property Organization**

**International Publication Number:**

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# A1SAR

## Diesel Fuel Optimizer



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A1SAR is manufactured by Aarmonia Chemical Private Ltd.

Fluid Dynamics, LLC is the authorized North America, Canada, and Mexico representative for Aarmonia Chemical Private Ltd.