



EFFICIENCY

ECONOMY

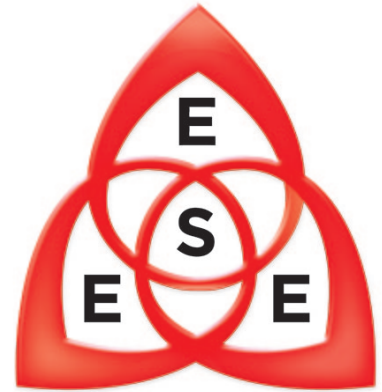
ENVIRONMENT

ONE STEP AHEAD



Towards Sustainability

The Aderco concept is the result of 30 years of experience in solving fuel related problems in close cooperation and partnership with our customers. It is based on three fundamental elements of the power industry, namely, Efficiency, Economy & the Environment. The operation can be monitored, evaluated and quantified through a systematic approach tailored to our customer's individual needs, taking full advantage of the benefits achieved through continuous usage of Aderco additives and Aderco concept.



EFFICIENCY * ECONOMY * ENVIRONMENT = SUSTAINABILITY

EFFICIENCY	Before Combustion	→	Prevention
	During Combustion	→	Performance
	After Combustion	→	Cleanliness
ECONOMY	Reliability	→	Availability
	Flexibility	→	On Maintenance
	Stability	→	Protection
ENVIRONMENT	Responsibility	→	Carbon Footprint

Before combustion

- Disperses asphaltenes agglomerations
- Eliminates sludge in tanks
- Prevents fuel oil incompatibility and stratification
- Reduces cleaning maintenances and costs
- Improve filtering and pre-combustion operation

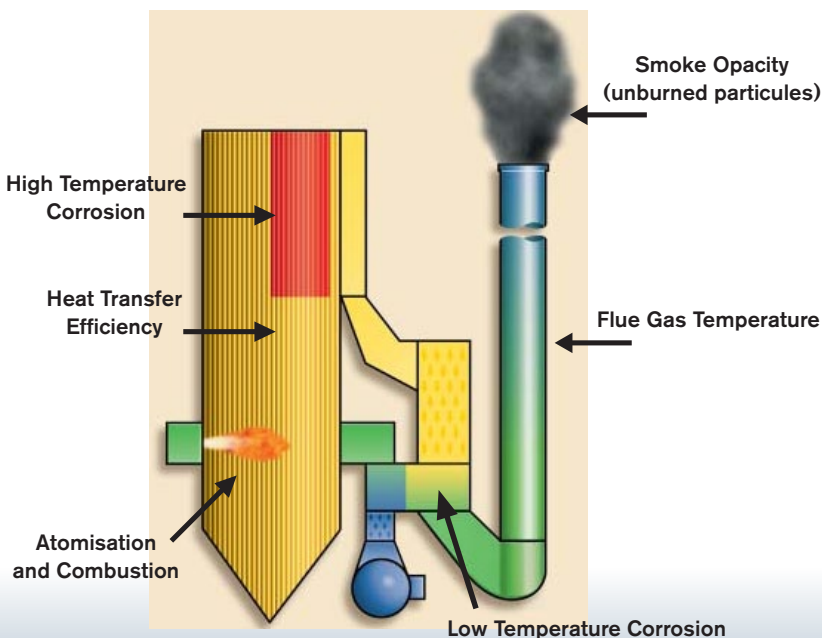
During combustion

- Optimises atomisation and improves combustion
- Lengthens injector life, maintain burner tips coke-free
- Upgrades quality of high CCAI fuels
- Maximise heat transfert efficiency

After combustion

- Reduces smoke opacity and particulate emissions
- Minimizes superheater corrosion
- Minimizes fuel related cold-end corrosion
- Minimizes carbon fouling
- Lowers flue gas temperature

Areas of expected benefits

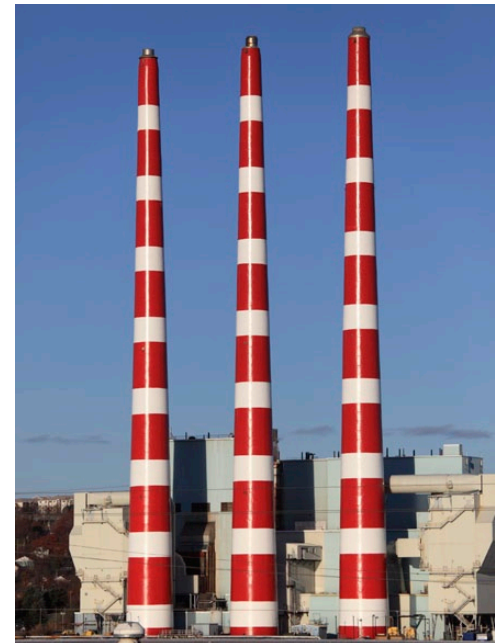


ASPHALTENES AGGLOMERATIONS

<p>Before Aderco</p> <p>HFO without ADERCO shows large asphaltenes agglomerations.</p>	<p>After Aderco</p> <p>Same HFO with ADERCO shows that large agglomerations have disappeared and particles are finely dispersed.</p>
<p>Before Aderco</p> <p>Without ADERCO the asphaltenes are uniformly agglomerated while with ADERCO the asphaltenes have broken up into small pieces.</p>	<p>After Aderco</p>
<p>Before Aderco</p>	<p>After Aderco</p> <p>Without ADERCO, many suspended agglomerations of asphaltenes are present. With ADERCO the asphaltenes are broken down into smaller particles that are hardly visible.</p>

Real quantifiable savings

With more than 30 years experience in the power industry, Aderco's Technical Team has developed a measurement tool to calculate real costs savings linked with the additive performance. The boiler's data is gathered in partnership with the client and cost assessment is evaluated according to the impact on the operation. Real quantifiable savings are obtained from continuous usage of ADERCO additives.

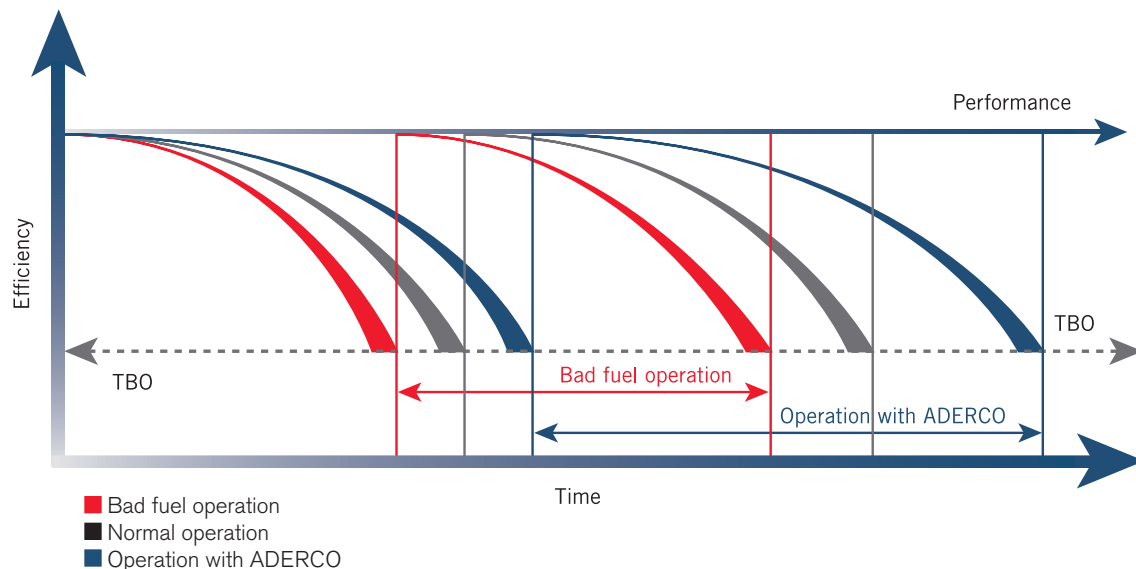


Economy impact on operation

- Reduce likelihood of boiler shut-down
- Minimize the risk of breakdown due to corrosion
- Maximize heat transfert efficiency
- Reduce cleaning maintenances and costs
- More time for general and preventive maintenance

Several advantages

As the result of a more complete combustion, much less carbon residue will be deposited on the heat transfer surfaces of the boiler. This translates into a more efficient and sustained operation which generates a number of savings and reduction in risk probability.



Aderco products are extremely concentrated and effective, right from the storage tank to the stack. At the same time, by reducing the deposits on the heating surfaces, you are also reducing the rate at which the vanadium can accumulate, therefore contributing to minimise the risk of corrosion leading to breakdown.

Improve combustion and reduce deposits



Carbon footprint

The carbon footprint is a measure of the impact our activities have on the environment, especially climate change. It relates to the amount of greenhouse gases we produce in our day-to-day lives through burning fossil fuels & related operations. Continuous usage of Aderco fuel treatments can effectively help you reduce your carbon footprint and ecological impact through various savings and reductions in emissions.

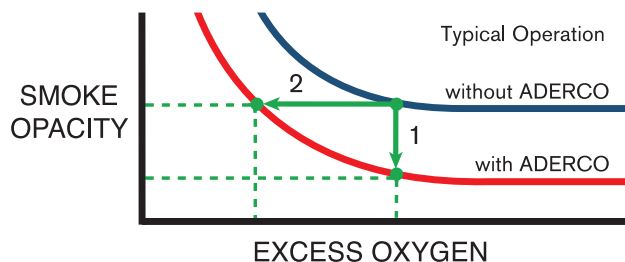


Non-toxic, safe and friendly to the environment!

Impact on the environment

A direct reduction of your carbon footprint and particulate emissions is obtained through better overall performance of the boiler. Major importance should also be given with regard to indirect CO₂ emissions, namely, those generated during the entire lifecycle of products used in the operation, thus serving to further contribute minimizing your carbon footprint.

Burner Characterization



Benefits of using

- Reduce particulate emissions and condensable sulphur oxides
- Reduce smoke opacity
- Spare parts replacement frequency extended
- More time for preventive maintenance
- Avoid unnecessary stress and wastage
- Possibility to operate with less excess oxygen
- Generates fuel economy due to better efficiency

The responsible choice



ADERCO the latest fuel additive generation

- 100% designed to solve asphaltenes, sludge and poor combustion problems
- Minimize fuel related high and low temperature corrosion
- Maximize heat transfer efficiency
- Improve combustion through better atomization
- Easy to use, no dosage device requested
- Highly concentrated, stabilized dosage ratio
- Worldwide distribution – support and services



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