

# POWERFUEL ADVANTAGES

Combustion Optimisation | Fuel Savings | Pollution Control



## Don't Burn Your Profits with Fuel!

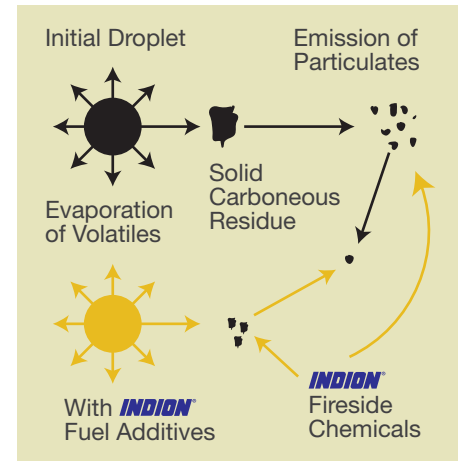
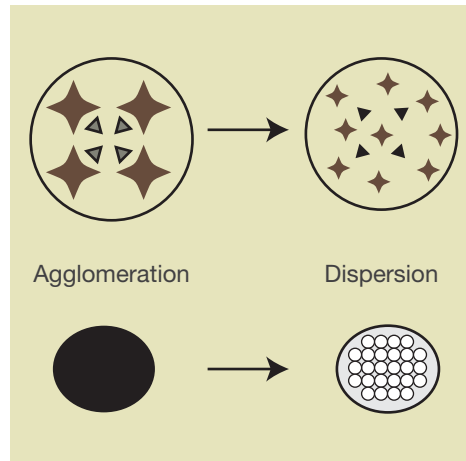
**INDION** Fuel & Fireside Treatment Programmes show you the way to maximise combustion efficiency and heat transfer, conserve energy and protect the environment. They help utilise every bit of fuel profitably – instead of letting it go to waste through inefficient combustion. These treatment programmes are brought to you by Ion Exchange (India) Ltd., the country's premier water & environment management company, with over five decades of experience in providing total solutions to industry, homes and communities. We offer a full line of world-class, customised treatment programmes and products, for all the fuel and industry segments – light, medium and heavy. Tailored to customer needs, they will work for you in multiple ways:

- Reduced fuel costs due to improved fuel combustion
- Prevention of slag deposit formation and corrosion in the equipments.
- Low maintenance
- Reduced unburnts and particulate stack emission due to minimal soot formation. This controls atmospheric pollution and ensures regulatory and environmental compliance

All of these help in saving more than energy: PROFITS

### INDION Fireside Chemicals

- Oxidise soot
- Prevent slag deposition
- Make clinker porous/brittle
- Neutralise acidity of condensed slag reducing corrosion
- Facilitate better heat transfer
- Reduce particulate stack emission
- Reduce excess air
- Improve overall boiler efficiency / performance

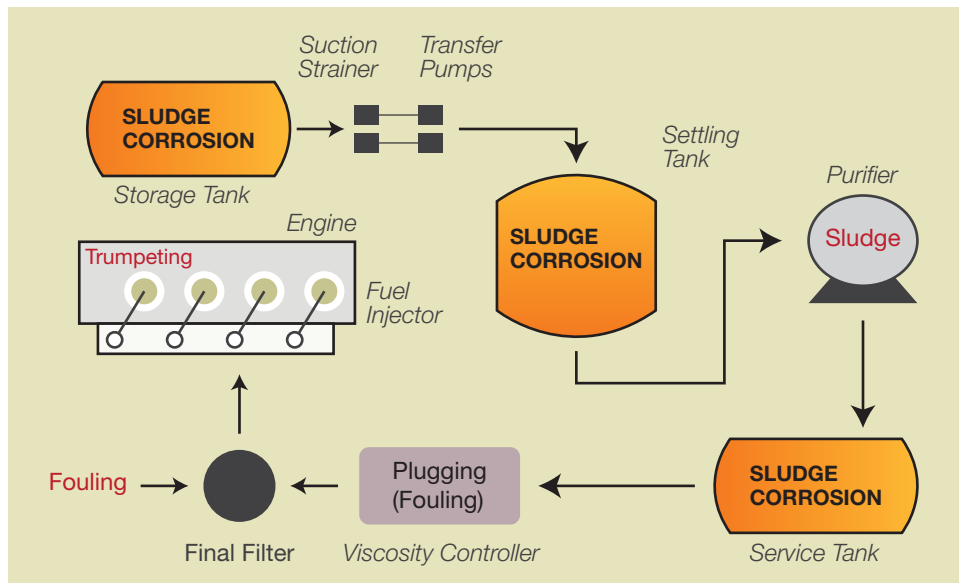


## A combination of INDION Fuel and Fireside Additives improves boiler efficiency and cuts down pollution problems.

### INDION Solutions

Formulations for all combustion engines/machines and for all fuels

- Sludge conditioners
- Corrosion inhibitors
- Wax solvents/viscosity improvers
- Combustion catalysts and anti-oxidants
- Soot reducers
- Surfactants and emulsifiers
- Devitrifying agents for clinkers





Technological Choice v/s Fuel Problem	Improvement with Fuel Additives	Improvement with Fireside Additives
Tank Corrosion	☑	☑
Sludge	☑	☑
Water in oil	☑	☑
Wax	☑	☑
Poor Combustion	☑	☑
Soot	☑	☑
Lt. and Ht. Corrosion	☑	☑

## Get Optimum Results Using **INDION** Fuel & Fireside Formulations

### A Total Approach

Ion Exchange offers a total and customised approach to Fuel & Fireside Solutions. We begin by doing a survey of your system to assess the extent of fuel wastage in your plant. Then we show you how to save the maximum possible amount of energy through our treatment programmes. Our custom designed, complete solutions for your fuel related problems will help you generate profits, save energy and protect the environment.

### **INDION** Fuel & Fireside Treatment Programmes

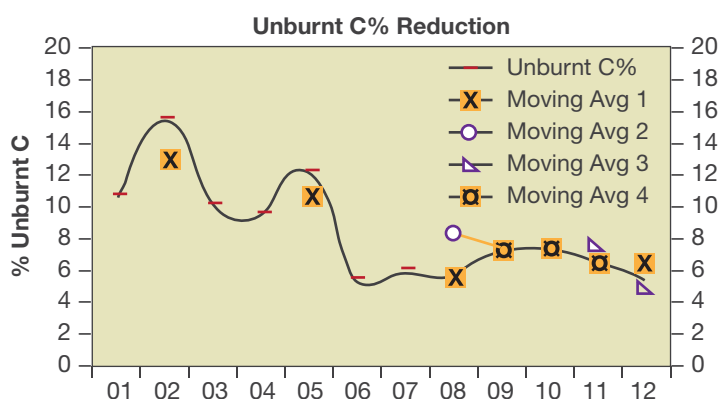
A unique blend of catalysts, antifoulants, acid neutralisers, fuel oils and fly ash conditioners, INDION treatment programmes are tailor-made for individual problems and provide exact solutions.

- World-class advanced technology
- Research-based, customised approach
- Comprehensive range from one source
- Cost-effective solutions for critical problems
- Regular on-site monitoring/analysis by experienced engineers
- Extensive facilities – laboratory, research and manufacturing
- Successful applications in diverse industries

### The Complete Spectrum

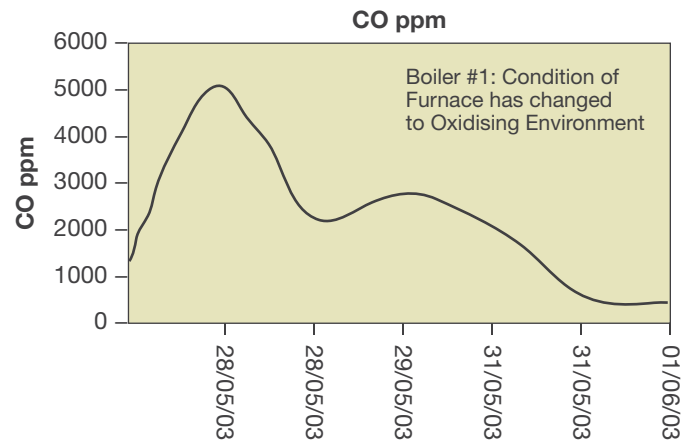
For all fuels: liquid & solid (husk, bagasse, bio-waste, coal, peat, coke, LSHS, FO, LDO, HSD.)

- Water emulsifiers
- Sludge dispersants
- Combustion catalysts
- Slag and fouling control agents
- Acid neutralisers and corrosion control additives
- Multi-purpose fuel oil additives
- Multi-purpose additives for solid fuels
- Anti Oxidant for Coal Auto Combustion
- Coal Dust suppressants
- Coal flow enhancers



## The Benefits

- Effective use of all fuel delivered = lower costs + lower waste disposal costs
- Increased plant availability at designed power output
- Fewer scheduled and unscheduled stoppages for repair and maintenance
- Reduced cost for boiler cleaning, diesel engine maintenance, tank cleaning
- Lower operation and maintenance costs
- Lower costs for sludge disposal and destruction
- Positive environmental impact



To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional / branch offices for current product specifications.

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