

RSA COAL CATALYST

OPTIMISE YOUR BOILER FIRESIDE SYSTEM WITH NO MECHANICAL, FITMENT OR CAPITAL INVESTMENT.

Successfully used within the following industry applications:

- COAL
- BEGASSE
- WOOD BARK
- LOW GRADE, OR BROWN COAL

WHAT IS OUR CATALYST

A simple eco-safe solution, that is easy to manage & cost effective with improved efficiency. Quantity of product can be adjusted to meet required efficiency. Does not require specialised application or equipment.

AN ECO-SAFE SOLUTION

Our catalyst does not adversely affect the environment, is completely eco-safe and will help reduce your factories carbon footprint.

RSA^{cat}[®]

 **coal catalyst**
South Africa



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PROUDLY SOUTH AFRICAN PRODUCT, MANUFACTURED BY CHINCO FIRESIDE TREATMENT

www.rsacat.co.za

Engineers' operational problems in the boiler house:

FOULING:

Fouling occurs when the volatile constituents in the ash condense on fly ash particles, convection tubes, and existing ash deposits at temperatures which keep the volatile constituent liquid and allow them to react chemically to form bonded deposits.

SLAGGING:

Slagging takes place when molten ash particles entrained in the gas strike a wall or tube surface, cool down, and solidify. Coals with low ash fusion temperatures have a high potential for slagging.

EMISSIONS:

Sulphur trioxide and particulate emissions are a global environmental problem. Sulphur dioxide is rated as 4th out of 400 lethal environmental hazards by the Australian Government. As a counter to this, very expensive filtration, scrubbing, and diluting systems are installed. Vast quantities of precious water are wasted in this way.

RSA Cat® Solution is an inexpensive, tried and tested mineral which is a none toxic, environmentally friendly catalyst.

The main secret is the much improved combustion it creates. The catalyst burns away the tar-like particles in the coal creating a grey/white smoke instead of the black sooty emission through the stack.

By increasing the fusion temperature of the ash the little fouling that still occurs is a dry, friable, easily removed deposit instead of the wet sticky slag that leaves the rock hard coating on the tubes.

The major SOx reduction is created mainly by the raw manganese ore base. Where coal has a very high SO2 content one can see the yellowish Sulphur smoke plume through the stack disappear.



RSA Cat® minimizes the potential for corrosion and reduces slagging and fouling on the boiler super heater tubes.



"THE RESULTS ARE SIMPLY INCREDIBLE"



FIRE TUBE BOILER

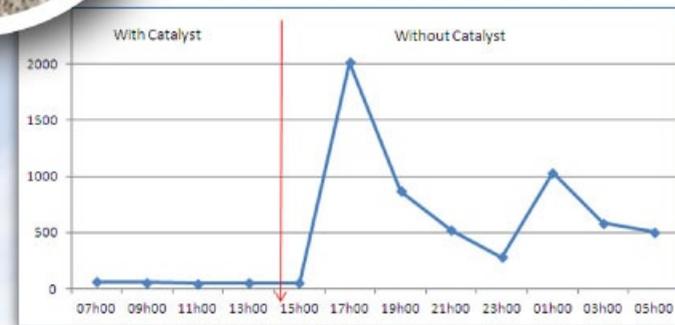


TOP: BEFORE CATALYST
RIGHT: WITH CATALYST

PROVEN BENEFITS OF RSA Cat®:

- Much improved combustion!
- Improved fuel efficiency!
- Reduced Coal usage!
- Softer deposits that can be more easily removed!
- Far less build-up to maintain better heat transfer!
- Far less downtime to clean boiler!
- Lower long term maintenance costs!
- Reduced particulate emissions!
- Much reduced SOx emissions!

BOILER STACK EMISSIONS (ng/Nm3)



Pre and Post Stack Emissions with RSA Cat® Catalyst



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