



SUDSTICKS

Powdered fireside additive for solid fuels

Area of Application

SUDSTICKS is a powdered form of a highly effective combustion catalyst, in a cardboard tube, specifically for use in boiler furnaces where un-burnt carbon deposits are creating a problem. The product contains a combination of metal salts and oxides which, in combination, provide effective oxidation of fireside deposits at a controlled rate. Controlled oxidation permits combustion to take place without the hazards of soot fires which may occur when oxidation is too rapid.

Product Benefits

- **SUDSTICKS** react with the combustibles, thereby breaking down the binder which causes the adherence of the deposit to the metal surfaces. The loose, dry ash resulting from the action of the **SUDSTICKS** can then be carried out with the stack gases or will be broken-up and eliminated during the soot-blowing operations.
- **SUDSTICKS** also assist in the control of corrosion due to corrosive gas emissions during combustion.
- Generally, the combustion temperature of soot (Carbon) is approx. 600 - 650°C, however the catalytic chemical action of **SUDSTICKS** can reduce this temperature to afford more efficient combustion.
- Apart from the obvious benefit, of increased fuel efficiency and reduced fuel consumption, it means that fuel will combust more completely in the cooler sections of the furnace and boiler tube-nest, producing light ash which may then be easily removed via the soot-blowers.

Typical Properties

Appearance : Free Flowing Off White Powder packaged in cardboard tubes.
pH (10%)@ 25°C : >10
Bulk density (25 deg C) : 1.25 – 1.30 g/cm³

Typical Dosages and Control

The exact dosage of **SUDSTICKS** will be advised by your ImproChem Water Treatment sales technologist for each application. The dosage will depend on factors such as the type and design of the boiler and the quality of the coal in use. The local ImproChem sales technologist will arrange for a full system survey, and provide advice accordingly.

Clearly the number of variants involved requires technical and theoretical consideration prior to the submission of any accurate costing. **Typical dosage: 100 – 250 g per TON of coal burnt.**

Feed Requirements

SUDSTICKS is conveniently pre-packaged in 250 g cardboard tubes for easy dosage to the solid fuel used.

Typically **SUDSTICKS** are manually dosed to the fire chamber using the inspection hole or can be dosed via the feed grate either in its cardboard tube or opened and spread across the solid fuel. It is important that **SUDSTICKS** are applied at least once/shift. Once added to the grate, retard fan/excess air for 2-3 minutes, then initiate soot blowing to remove the ash that the **SUDSTICKS** produce.



ImproChem

Water, Energy & Air Solutions

Product Brochure

Approvals and Certifications

SANS 1827:2009 – SUDSTICKS is verified under the requirements of the above national standard as acceptable for use by the Food Industry where treated water or steam produced might come into contact with food or food products

General Safety Statements

SUDSTICKS poses personal and environmental risk and therefore should be handled, shipped and stored according to the information supplied in the associated Material Safety Data Sheet (MSDS) document. Every person that could handle or otherwise come into contact with **SUDSTICKS** should familiarize themselves with the content of the MSDS.

Handling

In general, contact with **SUDSTICKS** must be minimized, and the correct personal protective equipment worn and procedures followed - wear gloves, apron, safety glasses and boots etc. If contact with product is unavoidable, wash copiously with water and refer to a physician and ImproChem immediately.

Shipping

SUDSTICKS is shipped in 10kg pack sizes.

All containers meet the UN transport specification for the assigned packing group.

Storage

SUDSTICKS will be stable for a period of 2 years from date of packaging if stored in a suitable dry area out of direct sunlight and with a temperature variation between 0 and 45 deg Celsius.

Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing ImproChem products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products.

MEDICAL ASSISTANCE NUMBER +27 31 904 1400

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