



THERMACT-BTM

Multifunctional Catalyst



ABHITECH ENERGYCON LIMITED

Introduction

Sugar mills world over have been traditionally using Bagasse as fuel in Boilers for generation of steam and power. Similarly, Co-generation with Bagasse-fired Boilers has become a supplementary income source to the sugar industry.

But due to high moisture content, Bagasse-fired boilers are subjected to incomplete combustion leading to tremendous amount of heat loss thereby reduced Boiler Efficiency.

These losses can be reduced by using State-of-art technologies. One such technology is the use of combustion catalyst to enhance the Boiler Efficiency of Bagasse-fired boilers.

What is **THERMACT-B** ?

THERMACT-B, a formulation comprising various catalysts, specifically designed to improve the Boiler Efficiency of Bagasse-fired boilers. THERMACT-B has been developed by Abhitech Energycon Ltd in collaboration with IIT, Mumbai, after years of Research and Development.



20 Kg HDPE Packing

THERMACT-B can be used for all types of Boilers

- Dumping Grate Boilers.
- Traveling Grate Boilers.
- Horse-shoe Boilers.
- High Pressure Co-gen Boilers.

Performance Evaluation Methods

The following methods may be employed to establish the performance of THERMACT-B in the Boilers.

1. Measurement of steam to fuel ratio.
2. Measurement of heat losses in the Boiler & converting them to equivalent fuel loss.
3. Measurement of Oxygen %, CO₂ %, CO ppm, flue gas exit temperature & Boiler Efficiency with the help of gas analyzer.

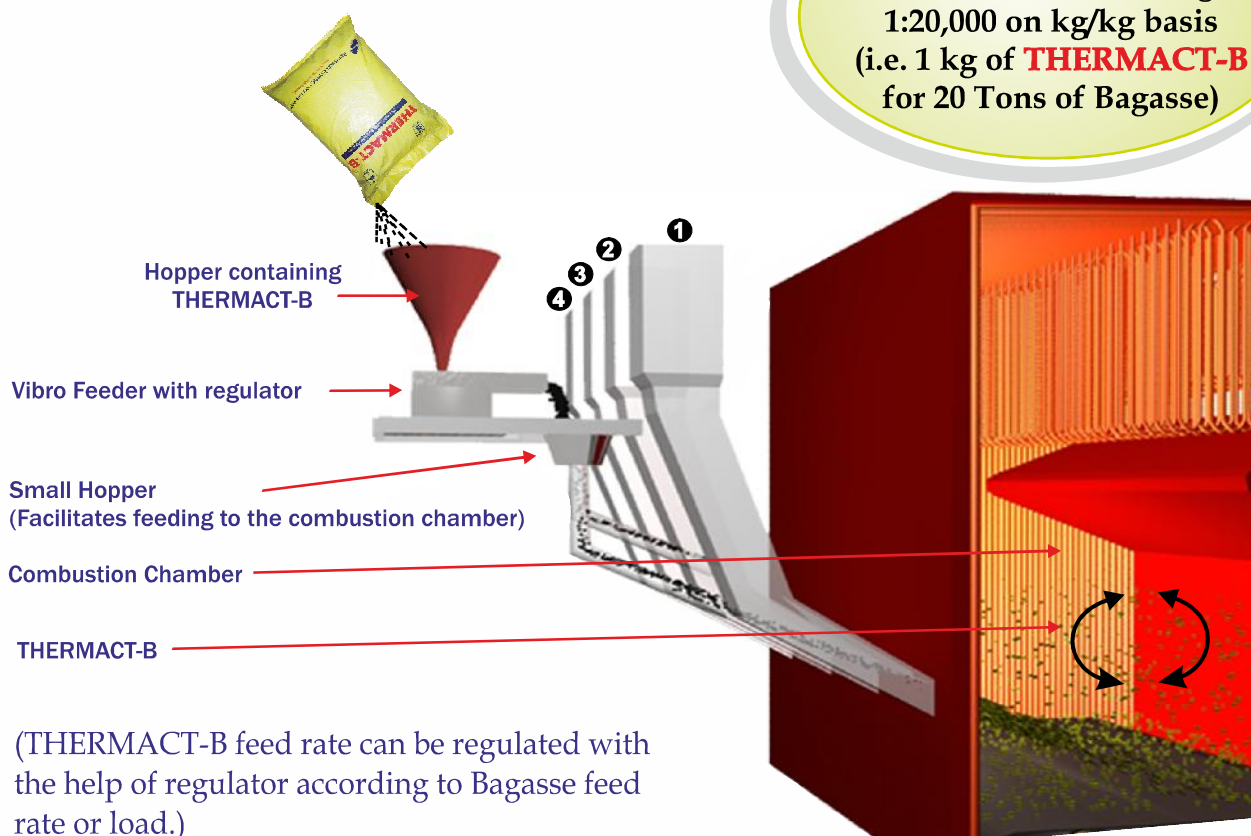
Technical Manpower

Our Technical team comprising of skilled & qualified manpower will provide the necessary services to establish the performance of THERMACT-B.

Method of Dosing

Dosage :

The recommended dosage is
1:20,000 on kg/kg basis
(i.e. 1 kg of **THERMACT-B**
for 20 Tons of Bagasse)



Without THERMACT-B

With THERMACT-B

● UNBURNTS IN ASH ●

Fly Ash is Black
in colour indicating
presence of
unburnt carbon



Fly Ash is Gray
in colour indicating
reduction in
unburnt carbon

● CLINKER ●

Hard & Heavy
Clinker



Soft & Reduced
amount of Clinker

Benefits of THERMACT-B®

The use of THERMACT-B in Bagasse-fired Boilers results in:

- Reduction in clinker and scale deposits on traveling grate & super heater zone.
- Reduction in Bagasse consumption by 3 to 5% resulting in increase in steam to fuel ratio.
- Steady steam temperature and pressure, thereby improving generation.
- Reduction in Stack Emissions.
- Reduction in Unburnt Carbon in Ash.
- Reduction in Auxiliary power consumption.
- Improvement in Boiler Efficiency.

Abhitech's Global Presence



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