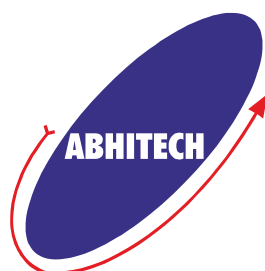




THERMACT-MtTM

Multifunctional Catalyst



ABHITECH ENERGYCON LIMITED

Introduction

Coke is a primary raw material used in the manufacture of Steel.

Coking Coal of various grades and types are used for manufacture of Coke. Due to increasing cost of Coking Coal the world over, modern technologies that can add value in reducing cost of manufacture of Coke, gain importance.

What is THERMACT-Mt ?

THERMACT-Mt is a multifunctional catalyst for Coking Coal developed in association with IIT, Bombay, and used by many Coke manufacturing units. It contains specially formulated catalysts which aid the process of manufacture of Coke. It is totally non-hazardous, and environmental friendly and safe to use.



20 Kg Packing

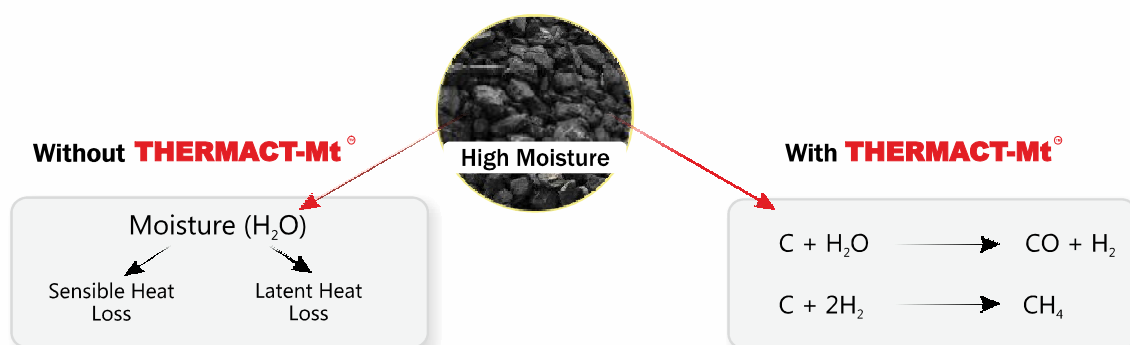
Working Principle of THERMACT-Mt

THERMACT-Mt is a formulation of different types of catalysts. One of the catalysts reduces the Activation energy required for various reactions that take place in Carbonization process, thus accelerating the rate of these reactions.

Further, the inherent moisture present in Coal is converted to C_nH_n gases, that burn off generating additional heat in the process.

THERMACT-Mt can be used in both Non-Recovery and Recovery type process of Coke making.

Effect of THERMACT-Mt on Inherent Moisture in Coal.



Evaluation Procedure

A initial study (without THERMACT-Mt) will be conducted for a period of 10 to 15 days during which, key parameters like Carbonization time, Temperature profile & Coke quality and any other relevant parameters will be measured. Thereafter, THERMACT-Mt will be dosed at a suitable location for a period of 30 to 60 days and the same parameters will be measured again. The change in the Coking time, Temperature profile & Quality, if any, will be noted.

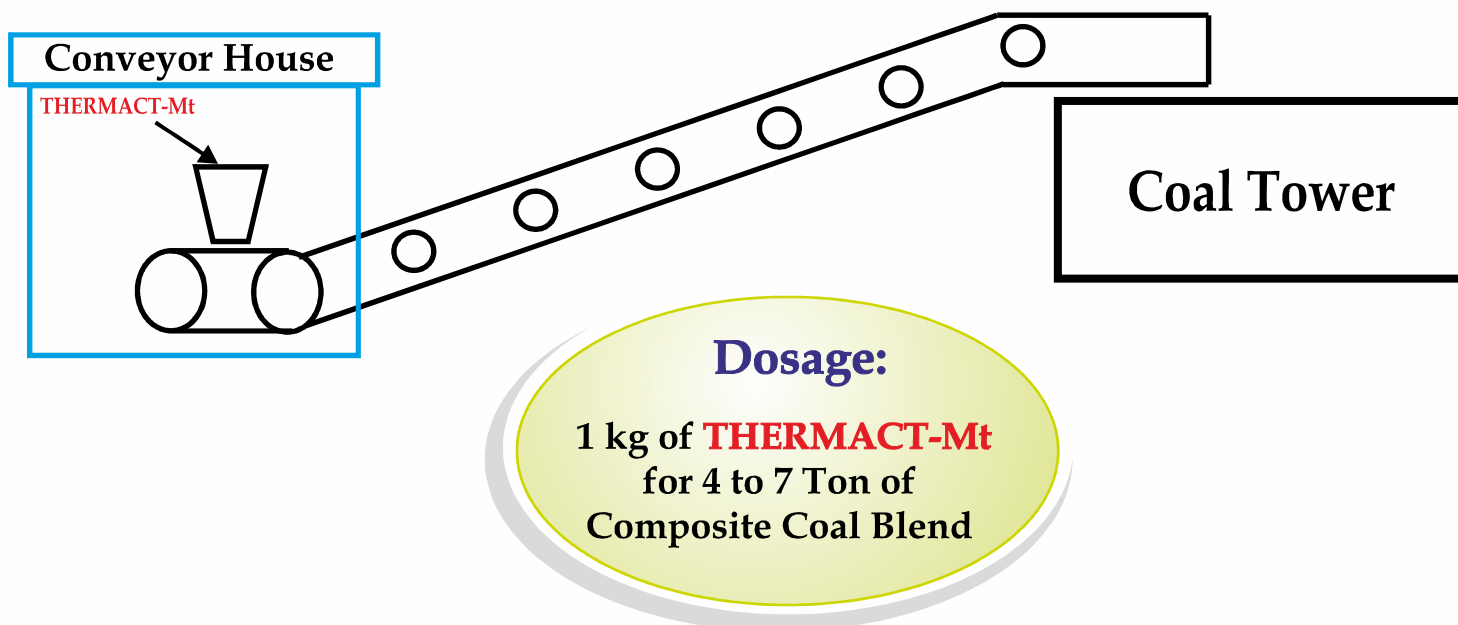
The impact on improved productivity can be computed based on the results obtained due to use of THERMACT-Mt.

Benefits of **THERMACT-Mt**

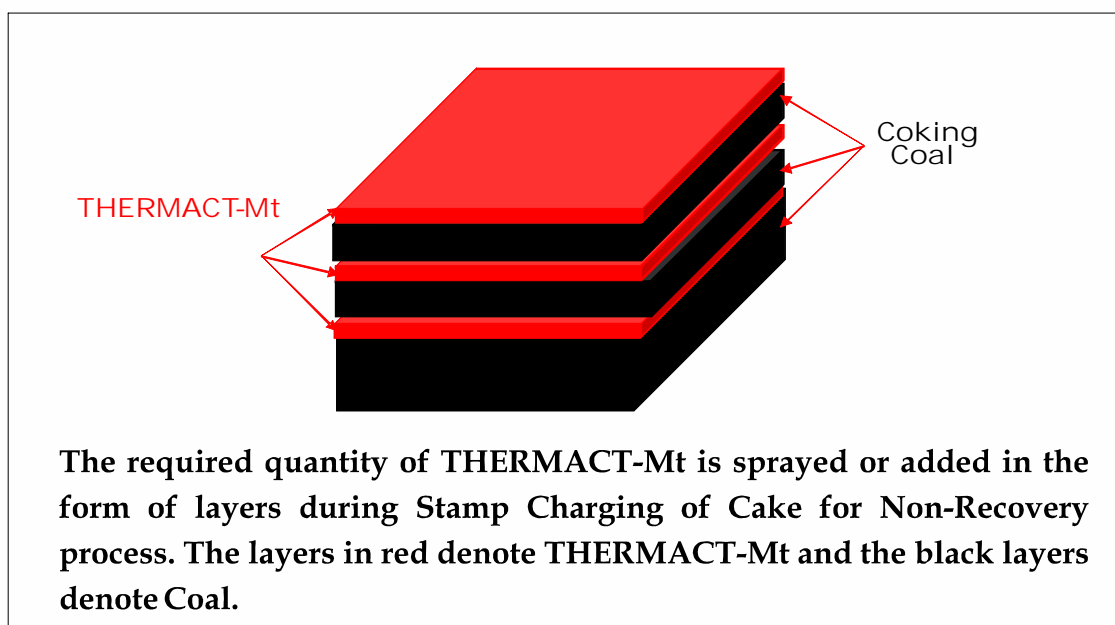
- *Reduction in Carbonization or Coking Time.*
- *Improved quality of Coke produced.*
- *Improved Gieseler Plastic Properties.*
- *Reduced energy input to Oven.*
- *Reduced Blend cost by modifying Blend composition without affecting Coke quality.*

Method of Dosing

For Recovery Process



For Non-recovery Process



Advantages of **THERMACT-Mt**

- *Reduction in Carbonization or Coking Time.*
- *Reduced Coke Oven gas input to Oven.*
- *Improvement in quality of Coke produced.*
- *Improved Gieseler Plastic Properties.*
- *Reduced Blend cost.*
(Increase use of semi hard or soft or non-coking Coal)

Abhitech's Global Presence



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