



VijayDeep

.....for better combustion

Catalyzal
(Coal / Coke / Biomass / FO Additives)

Vijaydeep Ofen Chemicals

www.vijaydeepofenchemicals.com
+91 9347068821, 040 27149055, 040 65559055



About Us

Vijaydeep Ofen Chemicals offers environment friendly performance chemicals for improving the combustion of fuels, keep firesides cleans and reduce pollution to improve thermal system efficiency and reduce operating costs.

Our Technology & Commitments

By adopting our Carbon activation agents, which have the special characteristic to enhance the rate of net heat transfer in any application involving solid carbon fuels. So that our product will reduces fuel consumption (Coal, Coke, Pet- Coke, Hard Coke, All types of bio mass fuels) in boilers, cupola and sponge iron kilns.

Our Technology will works towards the goal of achieving clean combustion technology for solid carbon fuels. The principle is to improve the combustion efficiency along with qualitative heat transfer in the boiler, which reduces fuel consumption in the furnace. Our commitment is minimum savings of 10-20% by application of our product (Catalyzal).

Mechanism

Initiates the efficient combustion at lower possible temperatures allowable for every PAHS. Conversion of lower melting point depositions to higher melting point depositions.

Catalyzal will avoid the corrosion related problems by neutralize the Oxides of Alkaline like Sodium, Potassium, Iron, Aluminum form sulphate with SO₃ present in flue gas (These are very corrosive at high temp on metal surfaces).

And also prevents the air pre-heater, economizer and stacks from serious blockages by eliminating the transformation and condensation of H₂SO₄

Product	Reduces Slag	Reduces Fouling	Increases Comb. Effi.	Reduces Soot	Reduces Corrosion	Reduces Nox & Sox
Catalyzal - C	Yes	Yes	Yes	Yes	Yes	Yes
Catalyzal -MF	Yes	Yes	Yes	Yes	Yes	Yes
Catalyzal-AF	Yes	Yes	Yes	Yes	Yes	Yes
Catalyzal-CI	No	No	Yes	Yes	No	Yes
Catalyzal-FO	-	Yes	Yes	Yes	Yes	Yes

Product	Coal(for all grades)	Biomass(for all types)	Coal + Biomass blends	Furnace Oil	Petcoke	Hard Coke
Catalyzal-C	Yes	-	Yes	-	Yes	-
Catalyzal-MF	Yes	-	Yes	-	Yes	-
Catalyzal-AF	-	Yes	-	-	-	-
Catalyzal-CI	-	-	-	-	-	Yes
Catalyzal-FO	-	-	-	Yes	-	-

Chemical Treat Rate is 1 Kg/ 1000Kg of the fuel

Advantages Of Our Technology

- Increases the heat intensity in the system by efficient heat generation and distribution.
- Alters heat generation frequency to the one which is easily absorb by steel tubes in the furnace.
- Lower fuel consumption per ton of steam generation.
- Lower thermal stress on combustion chamber.
- Avoids clinker formation and slagging.
- High heat residence time in combustion chamber.
- Low unburnt carbon in ash and low soot formation.
- Low black smoke emission.
- Lowers the maintenance cost of the furnace or boiler

Dosage & Equipment

For Catalyzal dosing purpose a small dosing unit (for auto fired boilers only) would be required to feed the chemical quantity along with the fuel. It's a single phase unit with 0.5 hp motor. Is to be installing on belt conveyor / on bunker / crushing unit / fuel pocket feeder.

For manual fired boiler no need to install the dosage unit.

Product Description &

Charecteristics

Catalyzal is a powder form chemical consisting oxidizing catalysts, anti slagging metal compounds and pollution controlling compounds.

Density	0.9-1.4
Ph	Neutral
Molecule	Poly carbonate of semi-Organic
Corrosivity	Non corrosive and non reactive to metals
ToxicContents	None
HazardousDecomposition	None
Flammability	Non – flammable



Thank you so much for your valuable time, look forward to serve you with our technology for more benefits by reducing the fuel consumption. Let us reduce the carbon foot print.

Vijaydeep Ofen Chemicals

H.No.42-282/B, Plot No-82, New Maruthi Nagar, Dr. A S Rao Nagar, Hyderabad-500062, Telangana state, India.

Email: vijaydeepofenchemicals@gmail.com
srao@vijaydeepofenchemicals.com

Phone: 91 9347068821, 040 27149055, 040 65559055