

Coke oven gas hot-blast stove burner**Product introduction of the coke oven gas hot-blast stove burner:**

Coke oven gas hot-blast furnace burner is an industrial burner which uses coke oven gas as fuel, and is used in hot blast furnace industry.

Coke oven gas, because of much combustile composition, belongs to high calorific value, crude or barren gas. Coke oven gas is a mixture of hydrogen H₂ (55%~60%) and methane CH₄ (23%~27%). It also contains a small amount of carbon monoxide CO (5%~8%), unsaturated hydrocarbon CMHN (2%~4%), carbon dioxide CO₂ (1.5%~3%), oxygen O₂(0.3%~0.8%), and nitrogen N₂(3%~7%).Hydrogen, methane, CO, C₂ are unsaturated hydrocarbons combustile components, while CO₂, nitrogen and oxygen are non-combustible components. Features of coke oven gas are:

1. The heating value of coke oven gas is about 4000kcal/N. m³; the combustile component is high (about 90%);
2. Coke oven gas is transparent, smelly gas;
3. Coke oven gas is toxic due to CO and a small amount of H₂S;
4. Coke oven gas contains much hydrogen, burning speed is fast, the flame is short;
5. If purification for coke oven gas is not good, will lead to more tar and naphthalene, which will block the pipe and its fittings, and bring difficulties in fire control work;
6. The ignition temperature is 600~650℃.

The coke oven gas burner developed by Jufeng thermal technology fully takes into account the high tar content of coke oven gas, and adopts unique structure. Compared with similar burners at home and abroad, it will not be blocked by crude coke oven gas without heating or filtering. The coke oven gas and air are mixed in the combustion head and ready to burning, after forming a flame, it ejects into the furnace; rather than going into the furnace firstly and burning. This method solves the problem of blocking the burner gas nozzle. Gas nozzles use small diameter nozzles, gas outlet velocity is greater than the flame propagation speed, eliminate the risk of temper. Using small diameter nozzles, gas outlet velocity is quicker than the flame propagation speed, which eliminate the risk of temper.

