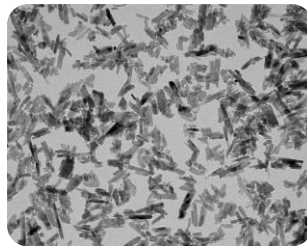


New functional material

Activated Iron Oxide for Combustion Catalyst [TIC™]



OVERVIEW

Iron oxide is used as a combustion additive since it has catalytic activity which makes other substances oxidize. The combustion catalyst "TIC™" is enhanced the catalytic activity to the maximum.

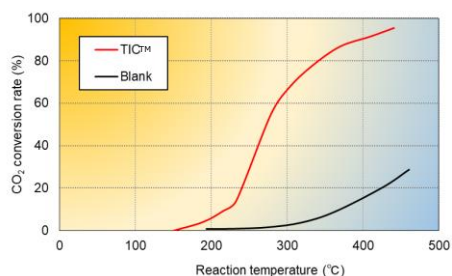
FEATURES

TIC™ promotes efficient combustion and makes even waste with high moisture content combust completely.

TIC™ is effective in decreasing dioxins generation by complete combustion.

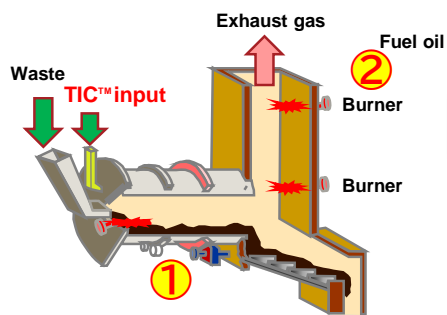
CHARACTERISTICS

TIC™ is an active powder based on α -FeO(OH) that exhibits extremely high catalytic activity even at low temperatures. The conversion rate of carbon monoxide to carbon dioxide is shown in the right figure as data demonstrating its characteristics.



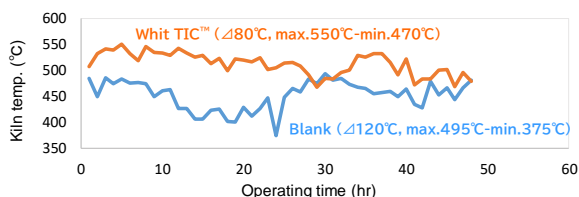
【Demonstration test using kiln stoker furnace】

The combustion promotion effect was evaluated by inputting TIC™ into a kiln stoker furnace.

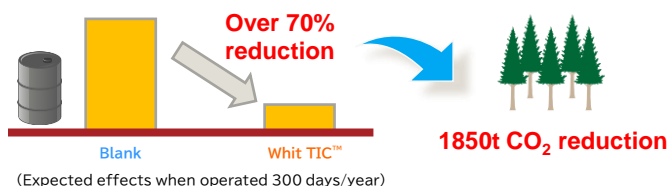


Kiln stoker furnace
(Waste processing capacity: 200t/day)

① The effect of stabilizing kiln temperature was observed.



② Fuel oil consumption has been reduced by more than 70%, which lead to reduce greenhouse gas emissions.



APPLICATIONS

- Combustion additive for waste incinerators
- Combustion additive for coal/biomass power generation

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