

순산소 순환유동층 로내 탈황을 위한 석회석 거동 연구

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Nowadays oxy circulating fluidized bed combustion(Oxy-CFBC) have been widely developed in the world. In Oxy-CFBC the removal of SO<sub>2</sub> in flue gas might happen via the desulfurization reaction of limestone similar to air fired CFBC. However CO<sub>2</sub> concentration in Oxy-CFBC is higher than that in air fired CFBC. It is very difficult for calcination reaction to happen. Therefore direct desulfurization could happen in Oxy-CFBC. Unfortunately there is not enough information about direct desulfurization reaction. To understand direct desulfurization reaction and recarbonization reaction in Oxy-CFBC, TGA experiments have been done.