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RDF 연소시의 HCl 발생 및 저감 특성 연구

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HCl Exhaust and Reduction Characteristics of RDF

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Key words : Refuse-Derived Fuel(폐기물 고형연료), HCl(염화수소), Combustion(연소), Flue Gas (배연가스)

Abstract : As the first stage for obtaining elementary data required to develop HCl emission reduction facility appropriate to RDF actively spread recently in Korea, preliminary experiments were conducted on HCl production and reduction characteristics in combustion of RDF. RDF samples weighing 2~3 g per a sample were manufactured in a lab-scale way. The study has discussed HCl emissions with Cl in RDF and composition of raw materials, HCl removal efficiencies with amounts of absorbents used and mole ratios of Ca/Cl, products by conditions of combustions, HCl emissions and amounts of Cl in ash by reaction temperatures and HCl removal efficiencies by absorbents with Ca based absorbents. And HCl emissions, amounts of Cl in RDF and Cl distributions by ashes measured in RDF combustion test facilities with capacities of 40 kg/hr and 200 kg/hr were analyzed and compared with preliminary test results.

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