

Article

Chlorine Gas Removal by H₂ Treated Red Mud for the Potential Application in Waste Plastic Pyrolysis Process

Tae-Young Kim ^{1,†}, Seo-Hye Hong ^{2,†}, Jae-Chang Kim ², Hye-Won Jang ², Yeji Lee ¹, Hyun-Ji Kim ³, Soo-Chool Lee ^{1,*} and Suk-Hwan Kang ^{3,*}

¹ Research Institute of Advanced Energy Technology, Kyungpook National University, Daegu 41566, Republic of Korea

² Department of Chemical Engineering, Kyungpook National University, Daegu 41566, Republic of Korea

³ Institute for Advanced Engineering, Yongin 41718, Republic of Korea

* Correspondence: soochool@knu.ac.kr (S.-C.L.); shkang@iae.re.kr (S.-H.K.)

† These authors contributed equally to this work.

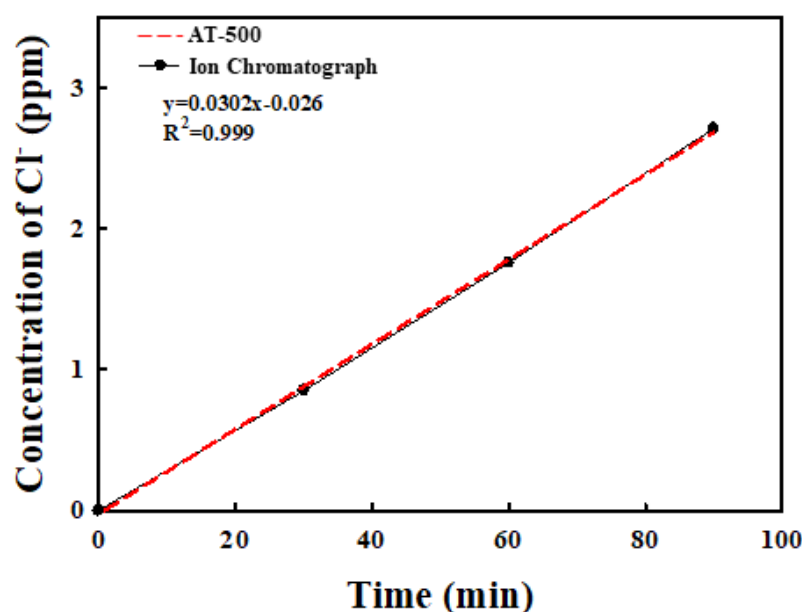


Figure S1. Calibration curve for Cl₂ between the Ion Chromatograph analysis and the real-time measurement

Table S1. Chemical Compositions of the red mud, as analyzed by XRF

Sapmle	Fe (%)	Ti (%)	Na (%)	Ca (%)	Si (%)	Al (%)
RM	73.75	10.14	5.63	3.74	3.57	3.17