Accepted Manuscript

Title: CO₂ capture and regeneration properties of MgO-based sorbents promoted with alkali metal nitrates at high pressure for the sorption enhanced water gas shift process

Authors: Byung Wook Hwang, Jeong Hwan Lim, Ho Jin Chae, Ho-Jung Ryu, DoYeon Lee, Joong Beom Lee, Ha Na Kim, Soo Chool Lee, Jae Chang Kim

PII: S0957-5820(18)30040-5

DOI: https://doi.org/10.1016/j.psep.2018.02.008

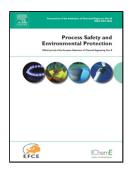
Reference: PSEP 1294

To appear in: Process Safety and Environment Protection

Received date: 23-10-2017 Revised date: 2-2-2018 Accepted date: 11-2-2018

Please cite this article as: Hwang, Byung Wook, Lim, Jeong Hwan, Chae, Ho Jin, Ryu, Ho-Jung, Lee, DoYeon, Lee, Joong Beom, Kim, Ha Na, Lee, Soo Chool, Kim, Jae Chang, CO2 capture and regeneration properties of MgO-based sorbents promoted with alkali metal nitrates at high pressure for the sorption enhanced water gas shift process. Process Safety and Environment Protection https://doi.org/10.1016/j.psep.2018.02.008

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



CO₂ capture and regeneration properties of MgO-based sorbents promoted

with alkali metal nitrates at high pressure for the sorption enhanced water gas

shift process

Byung Wook Hwang^(a, †), Jeong Hwan Lim^(a, †), Ho Jin Chae^(a), Ho-Jung Ryu^(c), DoYeon

Lee^(c), Joong Beom Lee^(d), Ha Na Kim^(c), Soo Chool Lee^(b,*), Jae Chang Kim^(1,*)

^a Department of Chemical Engineering, Kyungpook National University, Daegu 702-701, Republic of

Korea

^b Research Institute of Advanced Energy Technology, Kyungpook National University, Daegu, 702-701,

Republic of Korea

^c Korea Institute of Energy Research, Daejeon 305-343, Republic of Korea

^d Korea Electric Power Research Institute, Daejeon 34056, Republic of Korea

* To whom all correspondence should be addressed.

E-mail address: kjchang@knu.ac.kr, soochool@knu.ac.kr

Phone: +82-53-950-5622

Fax: +82-53-950-6615

†Byung Wook Hwang and Jeong Hwan Lim contributed equally to this study.

1

Download English Version:

https://daneshyari.com/en/article/6974218

Download Persian Version:

https://daneshyari.com/article/6974218

<u>Daneshyari.com</u>