



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.7, pp800-807,2017

Pore structure and specific surface area of the carbon electrodes from Coconut Shell Charcoal sintering up to temperature of 1500°C

^{*1}Meytij Jeanne Rampe, ²Sonny Lumingkewas

^{1,2}Department of Chemistry, Faculty of Mathematics and Natural Sciences, Manado State University, Indonesia

Abstract: Study pore structure and specific surface area of the carbon electrodes from charcoal coconut shell sintering up to temperature of 1500 C has been conducted. This research was aimed to study the effects of PVA as agent in the form of either powder or solution on pore structure and specific surface area and the effect of temperature up to temperature of 1500 °C on the characteristics of the carbon electrodes. Several methods of characteristics were performed including specific surface area, total volume of pore and averaged pore radii the component of material. The product characteristics of carbon electrodes showed that there was a change on the specific surface area and averaged pore radii has been sintered up to 1500 °C, the pore diameter declined by the increasing of the temperature.

Keywords: coconut shell charcoal, pore structure, specific surface carbon area, electrode.

Meytij Jeanne Rampe *et al*/International Journal of ChemTech Research, 2017,10(7): 800-807.
