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## Preparation of Activated Carbons from Cocoon

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### Abstract

In order to develop new usage of cocoon, production of activated carbon from cocoon was examined. Cocoon plate was prepared by hot-press method for several sheets of flat sheet cocoon. Cocoon plate carbon was carbonized from cocoon plate under the condition of heating at N<sub>2</sub> atmosphere. In the purpose of improvement of deodorization for cocoon plate carbon, activation of cocoon plate carbon was performed by using water, CO<sub>2</sub>-gas or chemicals (ZnCl<sub>2</sub>, NaOH, K<sub>2</sub>CO<sub>3</sub>). Surface area of cocoon plate carbon was increased with using activation agents at 800°C. The largest value of surface area (2186 m<sup>2</sup>/g) was obtained in the case of K<sub>2</sub>CO<sub>3</sub>.

### Keywords

Activated carbon, Activation, Cocoon, Surface area

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