

Production of Briquettes from Sugarcane Dregs Using Waru Leaf Adhesive

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ABSTRACT

Sugarcane bagasse waste is one of the materials that can potentially be used for biomass raw materials. The adhesive material that can be used is waru leaves, waru leaf plants are abundant around the community and are underutilized. The purpose of this study is to determine the characteristics of charcoal briquettes produced from bagasse with waru leaf adhesive and determine the best composition. The research method used is experimental method and physical characteristics of briquettes. This study found that sugarcane bagasse briquettes with waru leaf adhesive belong to SNI and are not close to commercial quality standards and English briquette quality standards. 1. In this study, the best characteristics were obtained in variation S1 with a composition of 75% bagasse and 25% waru leaf adhesive. With a moisture content of 5.15%, ash content of 5.45%, density value of 0.803 g/cm³ and burning rate of 0.0778 g/s in accordance with SNI briquettes in 2000. This shows that the raw material of nested bagasse can be used as raw material in making briquettes and waru leaf adhesive can be used as an adhesive material with consideration of mixing adhesives or variations in the use of adhesives.

Keywords: briquettes, bagasse, waru leaves