The Use Of Rice Husk As Fuel For Charcoal Briquettes With Hibiscus Leaf (Hibiscus tiliaceusL)

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ABSTRACT

Briquettes are solid fuels from biomass that can be used as an alternative energy source in certain forms. One of the raw materials for biomass that can be used is rice husk. The adhesive material used is hibiscus leaf, hibiscus leaf plants are abundant around the community and are underutilized. The purpose of this study was to determine the best composition of rice husk drickets with hibiscus leaf adhesive and to determine the main characteristics of the resulting briquettes. The research method used is the experimental method and the physical characteristics of the briquettes. The results showed that briquettes with waru leaf adhesive were still included in the standard (SNI 1-6235-2000). The best composition of SW1 is 80% (30 g) of rice husk and 20% (7.5 g) of hibiscus leaves, the properties and characteristics are close to the SNI value. Where in this treatment the water content value is 5.97%, the density is 1.1756 g/cm³, the ash content is 3.59%, the compressive strength is 0.96 kg/cm² and the calorific value according to SNI briquettes is 5044.53 cal/g. .

Keywords: briquettes, rice husks, hibiscus leaves