

Секція 2

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THE IMPACT OF GRINDING A COCONUT SHELL AND AN AGGLOMERATION PRESSURE ON THE QUALITY PARAMETERS OF THE BRIQUETTE

The paper presents the physico-chemical properties of coconut shells in terms of its energetic use. The results obtained are: humidity (9.4%), calorific value (17308.68 J·g⁻¹), low ash content (0.66%) and volatile content (77.7%) are comparable to those of biofuels available on the market.

The work was also carried out to assess the effect of the shredding degree and the applied agglomeration pressure in the briquetting process on the quality characteristics of the obtained briquettes. For briquetting the raw materials the POR ECOMEC Junior Press was used.

Tests were conducted for particulate matter on 8 and 12 mm sieves and for agglomerate pressure of 37 and 47 MPa. The obtained results showed that proper granulation of the raw material and application of appropriate agglomeration pressure improves the qualities of the briquettes.

References

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