Analisis flame jet bahan bakar ethanol 90% dan 96% dengan variasi lebar celah nyala pada non-pressurized vessel = Flame jet analysis of 90% and 96% ethanol fuel with variation of flame gap width in non-pressurized vessel / Mario Melsadakh Bill Maryunan Christ

Mario Melsadakh Bill Maryunan Christ, author

Abstrak

[ABSTRAK
Kebutuhan akan bahan bakar alternatif beserta metode penggunaannya yang tepat telah menjadi kajian untuk mengatasi kelangkaan bahan bakar di Papua, Indonesia. Salah satu alternatif yang digunakan ialah pemanfaatan ampas sagu untuk pengolahan bahan bakar etanol, yang disebut bioetanol. Penelitian ini ditujukan untuk mempelajari salah satu alternatif metode pembakaran pada kompor etanol yakni dengan menciptakan fenomena flame jet dengan memvariasikan lebar celah antara kompor tersebut. Adapun parameter yang diukur antara lain ialah kestabilan nyala api, temperatur nyala api, luas proyeksi nyala, serta tinggi jetting. Selain itu, beberapa karakteristik bioetanol sebagai bahan bakar juga diteliti.
<hr>
ABSTRACT
The need of alternative fuel and its method of using has been a subject to solve the scarcity of fuel in Papua, Indonesia. The utilization of dregs from Metroxylon sago to be processed into ethanol, called bioethanol, is one of alternative used to solve the problem. The aim of this research is to study the design of appropriate stove used for ethanol as fuel by using the method of flame jet by varying the gap width. The tested parameters are stability, temperature, area, and jetting height of flame. The characteristic of bioethanol as fuel is also studied., The need of alternative fuel and its method of using has been a subject to solve the scarcity of fuel in Papua, Indonesia. The utilization of dregs from Metroxylon sago to be processed into ethanol, called bioethanol, is one of alternative used to solve the problem. The aim of this research is to study the design of appropriate stove used for ethanol as fuel by using the method of flame jet by varying the gap width. The tested parameters are stability, temperature, area, and jetting height of flame. The characteristic of bioethanol as fuel is also studied.]