

Abstract

Responding to problems caused by a decrease in oil deposit and environmental damage of the exhaust gases on a vehicle, research on alternative energy begin to be developed. The use of hho generator be a solution. Hho was a combination gas hydrogen and oxygen. Hho generator is a to save fuel working a way separating a compound chemistry between gas hydrogen and oxygen of molecules water by using of electric current (electrolysis). The addition of hydrogen effect on a spark ignition the to raise thermal efficiency of 14 % and emission of nox can be reduced to 95 % (sae paper, suzuki.t.2006). Optimize the condition of burning on a spark ignition by adding hydrogen as a supplement fuel efficiency able to raise more than 25 % in sae paper, j.a. Goldwiz, j.b. Heywood, 2005). Thus need to be taken of filtration to get the hydrogen concentration that is appropriate for the supply of machine one of polimer to filter as nylon .Nylon is a compound of a polymer having intermittent amida , so that nylon called also compound poliamida .Nylon is semikristalin , strong and resistant to high temperatures .Nylon can be used as a membrane that having the nature of physical , chemical and mechanical good , as having resistance to extreme ph and temperature tinggi.sifat-sifat nylon are as follow strong and hold friction its elasticity large stretched to 8 percent.

Keywords: HHO Generator, electrolysis, hydrogen, nylon.