

Abstract

The increasing population causes the mobility in Indonesia to increase. Causing the concentration in the air to mix with pollutants released by vehicle fumes, which causes the air in Indonesia to become a hotbed of diseases such as Asthma, ARI, and Bronchitis. Air as one of the components of the environment is the main requirement for survival. Metabolism in the body of living things cannot take place without oxygen from the air. The problem of air pollution is already very worrying, with many factories, high mobility, and active smokers polluting the air with pollutants. Air pollution contains pollutants such as hydrocarbons and carbon monoxide that trigger diseases such as bronchitis and skin cancer. The higher the concentration of CO inhaled by humans, the more fatal the risk. In this study, coconut shell waste and mango leaves will be utilized to make activated carbon. This waste is often found and not utilized properly. So that it can be a solution for making oxygen-producing devices. Making activated carbon from these wastes goes through several stages, namely burning, then drying and molding according to the needs of the tool.

Keywords: activated carbon, air filter, oxygen generator, electrolysis, coconut shell, mango leaf.