

ABSTRACT

Waste is a component that is wasted or left over from the main ingredients that have been produced, waste is also defined as waste. The waste generated in the medium woodworking industry every month produces 3-6 full sacks of unused sawdust. One alternative to overcome these problems Magnesium oxide board (MgO Board) is a relatively new construction material that is used as an alternative to fiber cement sheets or gypsum panels. MgO board is used as an alternative due to its energy efficiency in production, cost effectiveness, acoustical attenuation, and flame retardant properties. In the process of making magnesium boards, a mixture of magnesium oxide and magnesium chloride is required. Magnesium oxide has a very tough character in terms of raw materials for making ceramics, among others; resistant to fire, has a strong surface resistance, waterproof, soundproof, resistant to weathering besides magnesium chloride has properties in this compound can bind or control dust and soil. Besides that, with the advantages possessed by magnesium oxide and magnesium chloride compounds, it can be used as one of the processing of sawdust waste into alternative products, for example glass plates. In this case, it encourages the processing of sawdust waste by mixing magnesium oxide and magnesium chloride compounds into glass liner products to increase the use value and reduce sawdust waste.

The identification of this problem refers to a background explanation, one of which is that unused sawdust can be utilized by the application of mixing magnesium oxide and magnesium chloride in the manufacture of magnesium oxide boards. How to process sawdust waste into glass products.

Keyword : Waste Wood Powder, Magnesium Oxide, Magnesium Chloride