

Waste to Wealth-Value Recovery from Agricultural and Industrial Biomass Residues.

Description:

Waste to Wealth-Value Recovery from Agricultural and Industrial Biomass Residues. Furfural from Lignocellulosic Biomass. Production of Furfural from Sugarcane Bagasse and Corncobs.

The concept of waste as a material "which has no use" is changing to that of seeing waste as a resource by converting into secondary material with modification. Wastes can thus be converted into useful resources used at home or even sold for wealth. Waste recycling involves the collection of discarded materials such as Sugarcane Bagasse, Corncobs etc and processing these materials, and turning them into new products.

Furfural is a chemical made out of organic matter which is typically produced for industrial purposes. It is primarily composed of agricultural byproducts such as oat husks, bran, corncobs, and sawdust. Some of the products it is used in include weed killer, fungicide, and solvent. It is also a familiar element in the production of transportation fuels and in the process of refining lubricating oils. The chemical is an element in the production of several other industrial agents as well.

Bagasse is a waste product from the sugar industry, which is usually used as energy source in factory at present. However, the amount of bagasse left is still high enough for more value-added product for example furfural. Bagasse is a good source of pentosan and containing about 25 to 27%. The main objective of the research was to produce furfural from bagasse. The main raw material for the production furfural was bagasse and some chemicals/ingredients were used (H_2SO_4 , water, NaCl).

Furfural is an important chemical because it is a selective solvent for separating saturated and unsaturated compounds in petroleum refining, gas, oil and diesel fuel, and for the high demand of its derivatives, especially furfuryl alcohol, used mainly in the production of furan resins for foundry sand binders, which is considered the major market for furfural

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Keywords: Production of Furfural, Production of Furfural from Bagasse, Process for Producing Furfural, Production of Furfural from Corncobs, Furfural from Corncobs, Making Furfural from Corn Cobs, Furfural Production from Corn Cobs, Furfural from Sugarcane Bagasse, Sugarcane Bagasse for Production of Furfural, Production of Furfural from Sugarcane Bagasse, Production Process of Furfural, Furfural Production from Corncobs, Preparation of Furfural From Corncobs, Furfural Manufacturing Business, Furfural Man

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