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Branch: Chemical Processes Engineering

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Groups No.: P3

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Project Title: Production of methanol

Specific Objective includes:

1. Definition and chemical formula

Methanol (methyl alcohol), CH_3OH , is a colorless liquid at ambient temperatures with a mild, characteristic alcohol odor. Originally called wood alcohol since it was obtained from the destructive distillation of wood, today commercial methanol is sometimes referred to as synthetic methanol because it is produced from synthesis gas, a mixture of hydrogen and carbon oxides, generated by a variety of sources.

2-Other Names

Methanol , also known as methyl alcohol ,Carbinol ,Columbian spirits ,Hydroxymethane ,Methyl hydrate ,Methyl hydroxide ,Methylic alcohol ,Methylol , ,Wood alcohol ,Wood naphtha ,Wood spirit.

3-Goal Of Project

The goal of this project is to produce 10,000 ton/year methanol from synthetic gas, which is widely used in the chemical industry, mainly in the production of formaldehyde, MTBE (methyl tert-butyl ether) and acetic acid.

4-Production Methods

- 1-Methanol production from natural gas
- 2- Methanol production from synthetic gas
- 3- Methanol production from biomass



5- Flow sheet for selected method

