Copper/zinc oxide (cu/zno) catalysts promoted by aluminium (al) are widely studied for the synthesis of methanol (ch3oh) as well as in the water gas shift. However, methanol can be produced from pure co2 and hydrogen using conventional and novel types of catalysts. Effects of catalyst composition have been studied for cu/support and cu/zno/supports in methanol synthesis from co2/h2. A strong effect of support has been. To render the production process more efficient, it would be helpful to know more about the copper/zinc oxide/aluminium oxide catalyst.

The industrial production of methanol from hydrogen and carbon monoxide depends on the use of copper and zinc. Topsoe's methanol synthesis process is the simplest, and the most effective, solution available on the market. Designed to synthesize methanol at the lowest. Methanol synthesis, cu/zno/al2o3 catalyst, space velocity, surface coverage, n2o titration. Conversion of co2 to methanol by catalytic. Methanol is made from the synthesis gas (co + h2) which is. In a typical methanol plant, natural gas and water are converted to synthesis gas (syngas), which consists of carbon monoxide, carbon dioxide.