

## THE METHANATION OF CO<sub>2</sub> OVER CO-NI/AL<sub>2</sub>O<sub>3</sub> CATALYSTS AT ATMOSPHERIC PRESSURE

*The methanation of carbon dioxide under atmospheric pressure over a Co-Ni/Al<sub>2</sub>O<sub>3</sub> catalyst containing 5 wt% of metals prepared by the impregnation method was studied. Temperature of 95% conversion CO<sub>2</sub> for all examined catalysts falls into range 320–450°C at conditions of SV 100 ml/min, 0.1 MPa pressure, and composition of feeding gas mixture CO<sub>2</sub> – 2%, H<sub>2</sub> – 55%, He – 43%. Methane selectivity was sufficiently high – up to 98%.*

*Key words: methanation, carbon dioxide, supported catalysts, cobalt-nickel catalysts.*