ABSTRACT

Mixed metal oxide of CuO-NiO is supported by α-Al₂O₃ synthesized by wet impregnation method that is followed by calcination. Characterization of metal oxide were examined by XRD, AAS and SEM-EDAX method. Concentration of NiO precursor solution were made constant whether concentration of CuO precursor solution were made in variation. The contents of metal at α-Al₂O₃ were measured by AAS showed tendency to rise by the raising of CuO precursor solution concentration. AAS result stated that concentration of Ni impregnated were 0,1675; 0,2653; 0,1481; 0,2268 ppm and concentration of Cu impregnated were 0,0843; 0,1305;0,872 1,4878 ppm at ratio of Ni/Cu 0,5:0,5 M; 0,5:2 M; 0,5:4 M dan 0,5:6 M. XRD result detected characteristic peak of CuO and NiO at the sample solid. Characteristic peak of CuO appeared at 2θ 35,62; 38,75; 48,87; 61,34 and characteristic peak of NiO appeared at 2θ 37,25; 43,42; 62,73; 75,10. Investigation by SEM-EDAX showed that metal oxide were dispersed homogenously over α-Al₂O₃ surface.