SYNTHESIS AND CHARACTERIZATION SiO$_2$ AMORF FROM SIDOARJO MUD

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ABSTRACT
The synthesis of amorphous silica from Sidoarjo mud has been done by coprecipitation method. The mud of Sidoarjo was chosen as raw material because it’s provides many stocks and can solve the problem that caused by spraying out of Lapindo mud. Mud of Sidoarjo was reacted by NaOH 5M, 6M, and 7M to produce sodium silicate(Na$_2$SiO$_3$). The sodium silicate was then reacted with HCl to produce silica gel and heated at 80° C until dry. From coprecipitation method can be produced amorphous silica with 95,7% purity

Keyword : Sidoarjo mud, Na$_2$SiO$_3$, Silica
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