

Polymerization of Ethylene Using $MgCl_2$ -supported Ziegler Natta Catalyst

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The development of Ziegler-Natta catalyst has been the subject of active research for many years. It was discovered that highly active polymerizations of ethylene are based on this catalyst supported on active $MgCl_2$. For the polymerization of ethylene, $MgCl_2$ -supported Ziegler Natta catalyst was prepared using chemical route, where active $MgCl_2$ is generated and Ti compound and Lewis base are incorporated. The influence of alcohol feeding condition on catalytic performance, and polymer morphology were investigated in the study.