The Promoting and Chlorine Effects of Ceria & Vanadium Oxide with Palladium on Alumina for Automotive Application

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The nature of Pd active sites and chlorine effect on Pd/Al $_2$ O $_3$, Pd-CeO $_2$ /Al $_2$ O $_3$, Pd-V $_2$ O $_5$ /Al $_2$ O $_3$ catalysts was investigated. The activities of Pd series alumina strongly depended on the prepartion method. Pd-V $_2$ O $_5$ /Al $_2$ O $_3$ is significantly more active than other catalysts in various condition. Possible mechanisms for the improved performance of Pd-V $_2$ O $_5$ /Al $_2$ O $_3$ are discussed.