Investigation optimization amount and level of Pd and Rh in gasoline automotive catalyst.

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The concern of global air pollution is becoming more serious. Among them, automotive OEM focused on control internal combustion along with enhancement of exhaust catalyst. In case of automotive catalyst manufacturers focused functional improvement of components such as oxygen storage components, high thermal durability components, high surface area materials, scavengers and perovskite. Despite their efforts, precious group metal [PGM] is the dominant on catalytic activity.
In this study, the Pd/Rh ratio of each was 9/1, 14/1, 25/1, 49/1 and 1/0. Different ratio of Pd/RH impregnated catalyst was tested in synthetic gas bench test with thermal aged sample core. Thermal aging was conducted by oxidation and reduction condition at 1,100 ℃ for 20 hrs.