

Development of a Three-Way Catalyst for Reducing N₂O Emissions

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Recently, One of the most fundamental issues for atmosphere environment is greenhouse gases emission. One of the greenhouse gases, N₂O, is emitted from industries and automobiles. N₂O can be eliminated by thermal decomposition, non-selective catalytic reduction, selective catalytic reduction, direct catalytic decomposition. Among the above technologies, Decomposition of N₂O using catalyst is the most efficient and economical method.

This experiment studied the optimal PGM ratio of a three-way catalyst to reduction the N₂O at low temperatures. N₂O reduction performance of the catalyst was determined using engines and vehicles.