

Catalyst for cleaning exhaust gas and its manufacturing method

Superior CO Oxidation Performance and Advanced Catalytic Activity

Overview

Traditionally, porous metals have been used in the field of exhaust gas purification catalysts. As this porous metal, porous metal thin films containing pores in which one or more holes are formed are known. Also disclosed are porous metal particles having a pore size of 1 μm or less formed by fusing a contact part with a plurality of metal fine particles having a primary particle size of 200 nm or less. However, there is a problem that the conventional porous metal does not have sufficient catalytic activity when used as a catalyst for exhaust gas purification.

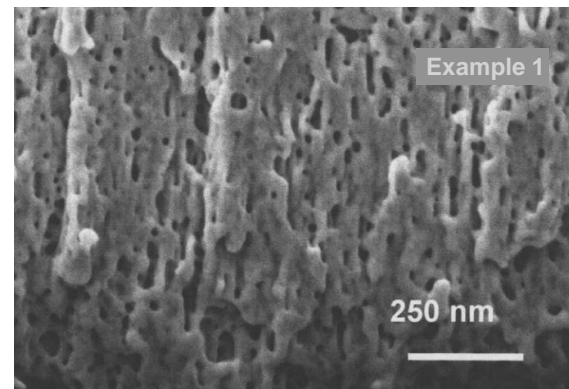
The present invention has made it possible to provide an exhaust gas purification catalyst having excellent oxidation performance of CO and sufficiently high catalytic activity, and a method for producing the catalyst. In the present invention, after obtaining an alloy containing a specific metal and Al, Al is eluted from the alloy to obtain a porous metal having pores having a small central pore diameter. The diameter of the central pore of the present invention is 1~15 nm. It has been confirmed that a catalyst for exhaust gas purification equipped with a porous metal having such a central pore diameter has high catalytic activity.

Product Application

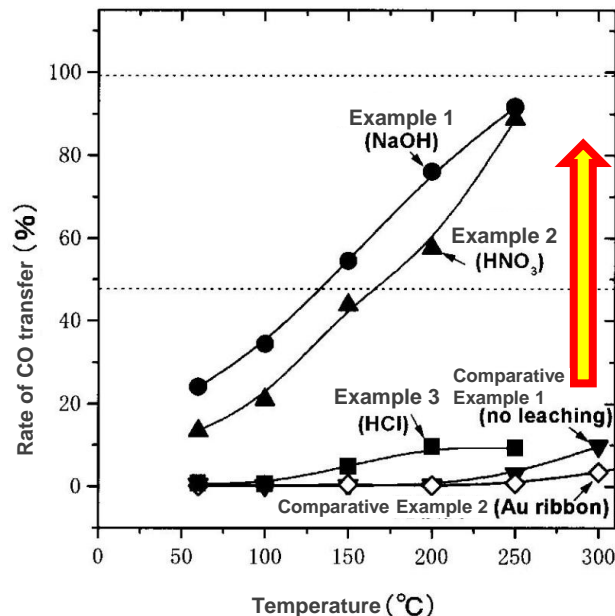
- Oxidation catalyst for purifying exhaust gas

IP Data

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It was confirmed that the porous metal of the present invention has high CO conversion.



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