

Effect of Pt/Al₂O₃ coating method on the metal foams for diesel oxidation catalysts

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Metal foams are highly porous open-celled materials, formed by unit polyhedral cells of solid structure that pack in three dimensions to build a network. In addition, it has high thermal conductivity and mechanical strength. In this study, Pt/Al₂O₃ catalysts were prepared by slurry and sol-gel method, and then coated on the metal foam. The foams coated with slurry and sol-gel methods were characterised by means of loading measurements, adhesion tests and activity tests in a microreactor to evaluate the washcoat performances in the catalytic oxidation of diesel.