



WELL DEFINED SILICA-ALUMINA SUPPORT FOR ENVIRONMENTAL POLLUTION PREVENTION

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Abstract

A mesoporous silica-alumina support was synthesized by the sol-gel process. Mechanical mixtures consisting of a catalyst (Pt/SiO₂ or Rh/SiO₂) and the SiO₂-Al₂O₃ support were tested for the selective reduction of NO by C₃H₆. The results obtained with this silica-alumina support, which is free of impurities, proved that an acidic support can influence NO reduction and enhance N₂ selectivity.

Keywords: NO SCR, metal supported catalysts, acidity, sol-gel process, mesoporous silica-alumina

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