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ONLINE ISSN : 1349-273X

PRINT ISSN : 1346-8804

Journal of the Japan Petroleum Institute

Vol. 47 (2004) , No. 3 pp.222-223

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Sulfur Tolerance of Pd, Pt and Pd-Pt Catalysts Supported on Amorphous Silica

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(Received: February 17, 2004)

Effect of pore structure of silica support on sulfur tolerance and tetralin hydrogenation activity of Pd, Pt and Pd-Pt catalysts was investigated. Pore diameter of SiO₂ supports affected the sulfur tolerance of noble metals and resulting hydrogenation activity. High sulfur tolerance and tetralin hydrogenation activity were observed for the Pd-Pt and Pt catalysts supported on SiO₂ having the average pore diameter of 3 nm. This sulfur tolerance was comparable to those supported on ultra stable Y (USY) zeolite having the SiO₂/Al₂O₃ ratio of 390.

Keywords: [Noble metal catalyst](#), [Silica support](#), [Pore diameter](#), [Sulfur tolerance](#), [Aromatics hydrogenation](#)

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To cite this article:

Takashi Matsui, Masaru Harada, Kyoko K. Bando, Makoto Toba and Yuji Yoshimura, *Journal of the Japan Petroleum Institute*, Vol. **47**, No. 3, p.222 (2004) .

doi:10.1627/jpi.47.222

JOI JST.JSTAGE/jpi/47.222

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