ABSTRACT

HYDROGENATION CATALYST FOR AROMATIC HYDROCARBONS CONTAINED IN HYDROCARBON OILS

A hydrogenation catalyst for hydrocarbon oils containing aromatic hydrocarbons is provided. The catalyst has a silica-magnesia oxide carrier with a magnesia content within a range from 25 to 50 weight percent calculated in terms of the metal oxide, to which a noble metal selected from among the group VIII metals of the periodic table is added as the active component. In addition, the pore characteristics of the catalyst are such that the volume of pores with a pore size of at least 4 nm as measured by a mercury porosimetry method is within the range from 0.3 to 0.6 ml/g, the volume of pores with a pore size of at least 200 nm as measured by a mercury porosimetry method is no more than 0.05 ml/g, the volume of pores with a pore size from 0.7 to 2 nm as measured by nitrogen adsorption-t-plot method is within the range from 0.2 to 0.3 ml/g, and the volume of pores with a pore size from 2 to 4 nm as measured by nitrogen adsorption-DH method is within the range from 0.15 to 0.2 ml/g.

No accompanying figure



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