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ABSTRACT



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A catalyst for hydrotreating gas oil, which comprises an inorganic oxide support having provided thereon: at least one selected from metals in the Group 6 of the periodic table at from 10 to 30% by weight, at least one selected from metals in the Group 8 of the periodic table at from 1 to 15% by weight, phosphorus at from 1.5 to 6% by weight, and carbon at from 2 to 14% by weight, each in terms of a respective oxide amount based on the catalyst, wherein the catalyst has a specific surface area of from 220 to 300 m²/g, a pore volume of from 0.35 to 0.6 ml/g, and an average pore diameter of about from 65 to 95 Å; a process for producing the catalyst; and a method for hydrotreating gas oil, which comprises subjecting a gas oil fraction to a catalytic reaction in the presence of the catalyst under conditions at a hydrogen partial pressure of from 3 to 8 MPa, a temperature of from 300 to 420°C, and a liquid hourly space velocity of from 0.3 to 5 hr⁻¹.