

CATALYTIC COMPOSITION FOR HYDROTREATING OF HYDROCARBONS AND METHOD FOR HYDROTREATING

ABSTRACT OF INVENTION

A catalytic composition for hydrotreating of hydrocarbons in which a metallic component for hydrogenation is carried on a carrier comprising zeolite Y with aluminum and titanium inserted therein and a porous inorganic oxide, the zeolite Y having the following characteristics: (a) unit cell dimension (UD) in a range from 24.25 to 24.60 Å, (b) crystallinity of 95% or more, (c) specific surface area (SA) of 500 m²/g or more, (d) total pore volume (PV_t) of a group of pores each having a diameter of 600 Å or below in a range from 0.45 to 0.70 ml/g, (e) pore volume (PV_m) of a group of pores each having a diameter in a range from 100 to 600 Å in a range from 0.10 to 0.40 ml/g, (f) pore volume (PV_s) of a group of pores each having a diameter in a range from 35 to 50 Å in a range 0.03 to 0.15 ml/g, and (g) percentage of 4-coordinate aluminum atoms against total aluminum atoms in the zeolite of 60 atom % or more.