

Abstract

The present invention relates to the field of catalytic cracking, and discloses a catalyst with regular structure capable of simultaneously reducing the emission of SO_x and NO_x and a preparation method thereof, and a method for simultaneously reducing both SO_x and NO_x from flue gas, the catalyst comprises a support with regular structure and an active component coating distributed on the inner surface and/or the outer surface of the support with regular structure, the active metal component contains: 1) as oxide, 50-95 wt% of metal component(s) selected from Group rare earth and/or Group IIA; 2) as oxide, 5-50 wt% of non-precious metal component(s) selected from Groups VB, VIIB, VIII, IB, and IIB; 3) as element, 0.01-2 wt% of precious metal component. Using the catalyst provided by the invention can reduce the total amount of added active components and enhance the emission reduction effect of the additive.

No Figure.