

# **A Pseudo-boehmite and its Preparation Method, and A Catalytic Cracking Catalyst Containing the Pseudo-boehmite, and Its Preparation and Application**

## **Abstract**

The present invention provides a pseudo-boehmite, wherein the ratio of the crystalline sizes  $D_{(130)}$  and  $D_{(020)}$  of the pseudo-boehmite is  $D_{(130)}/D_{(020)} = 1.0-1.5$ , preferably, 1.1-1.3. The present invention also provides a preparation method of the pseudo-boehmite, a catalytic cracking catalyst containing the pseudo-boehmite, and a preparation method and application of the catalytic cracking catalyst. The pseudo-boehmite is applied to a catalytic cracking catalyst, and can produce a significant mesopore distribution in case that the catalyst strength is qualified, significantly improving the pore structure of the catalyst, which is of great significance for promoting the efficient diffusion of heavy oil macromolecules, reaction intermediates and product molecules in the catalyst, reducing the coke yield, and optimizing the product distribution. The preparation method of pseudo-boehmite is green and environmentally friendly, low in cost, and easy to implement.

[No Fig]