

Abstract

The present invention belongs to the field of catalyst preparation, and relates to a catalytic cracking catalyst and a process for preparing the same. The catalytic cracking catalyst comprises 10-70 wt% of a cracking active component, 10-60 wt% of a binder and 10-70 wt% of a clay, wherein the cracking active component comprises 5-100 wt% of a first Y-type molecular sieve and 0-95 wt% of a second molecular sieve; the first Y-type molecular sieve is a modified molecular sieve based on the crystal modification of kaolin, and has the sodium oxide content of less than 2 wt%. The process for preparing the catalyst comprises the steps of vigorously mixing and stirring a cracking active component comprising a modified molecular sieve based on the crystal modification of kaolin, a binder and a clay with water; spray drying; washing; filtering; and drying. The catalyst is used in the catalytic cracking reaction of heavy oils, and has a good coke selectivity, as well as a higher heavy oil conversion rate.

No Figure