

ABSTRACT

CATALYTIC COMPOSITION FOR FLUIDIZED CATALYTIC CRACKING OF HYDROCARBONS AND METHOD FOR PRODUCING THE SAME

The catalytic composition according to the present invention has high attrition resistance and provides an excellent effect of increasing an octane number in gasoline and a content of light olefins in case of low contents of pentacyl-type zeolite in the catalyst.

The catalytic composition for fluidized catalytic cracking of hydrocarbons has a form of spherical fine particles and comprises phosphorus pentoxide in the range from 5 to 20% by weight, pentacyl-type zeolite in the range from 10 to 50% by weight and a porous inorganic oxide in the range from 30 to 85% by weight. A content of P_2O_5 in a surface portion of the spherical fine particle is 1.05 times or more higher than that in a central portion thereof.

[No Figure]