

Abstract

The present invention relates to a metal modified Y zeolite, its preparation and use. Said zeolite contains 1-15wt% of IVB group metal as oxide and is characterized in that the ratio of the zeolite surface's IVB group metal content to the zeolite interior's IVB group metal content is not higher than 0.2; and/or the ratio of the distorted tetrahedral-coordinated framework aluminum to the tetrahedral-coordinated framework aluminum in the zeolite lattice structure is (0.1-0.8):1.

Fig.1