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(54) Title: METAL-CONTAINING ZEOLITE CATALYST, PREPARATION THEREOF AND USE FOR HYDROCARBON CONVERSION

(57) Abstract

There is provided a zeolite bound zeolite catalyst which does not contain significant amounts of non-zeolitic binder and a process for converting hydrocarbons utilizing the zeolite bound zeolite catalyst. The catalyst comprises first zeolite, crystals, a binder comprising second zeolite crystals and a hydrogenation/dehydrogenation metal. The zeolite bound zeolite catalyst is prepared by converting the silica binder of a silica bound aggregate containing the first crystals of said first zeolite and at least a portion of the hydrogenation/dehydrogenation metal to said second zeolite. Conversion processes such as naphtha reforming, xylene isomerization/ethylbenzene conversion, the zeolite bound zeolite catalyst has excellent performance when used in hydrocarbon.

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