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(54) **Title:** PROCESS FOR PRODUCING PHOSPHORUS MODIFIED ZEOLITE CATALYSTS

(57) **Abstract:** In a process for producing a phosphorus-modified zeolite catalyst, zeolite crystals can be formed into a shaped catalyst body either in the absence of a separate inorganic oxide binder or in the presence of a separate inorganic oxide binder that is substantially free of aluminum. After converting the zeolite crystals to the hydrogen form and removing any organic directing agent employed in the synthesis of the zeolite crystals, the shaped catalyst body can be treated with an aqueous solution of a phosphorus compound, and the treated catalyst body can be heated to remove the water and to convert the phosphorus compound to an oxide form.



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