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(54) Title: PHOSPHORUS MODIFIED ZEOLITE CATALYSTS

(57) Abstract: The invention relates to a bound phosphorus-modified catalyst composition comprising a zeolite having a silica to alumina molar ratio of at least 40 and a binder having a surface area less than 200 m²/g, wherein the bound catalyst composition exhibits a mesopore size distribution with less than 20% of mesopores having a size below 10 nm before steaming in approximately 100% steam for about 96 hours at about 1000°F (about 538°C) and with more than 60% of mesopores having a size at least 21 nm after steaming in approximately 100% steam for about 96 hours at about 1000°F (about 538°C).

