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(54) Title: PRODUCTION OF PARA-XYLENE

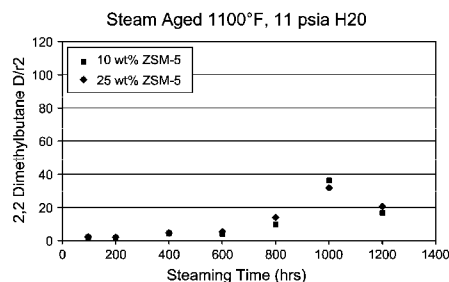


FIG. 1(a)

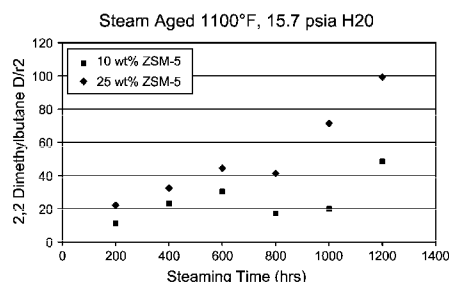


FIG. 1(b)

(57) Abstract: In a process for producing para-xylene, benzene and/or toluene is alkylated with methanol in the presence of a catalyst under conditions including a temperature of at least 500°C and an H₂O partial pressure of at least 12 psia (83 kPaa). The catalyst comprises from 5 to 15 wt% ZSM-5, phosphorus or a compound thereof and a binder and has been steamed at a temperature of at least 900°C. The steamed catalyst has no more than two peaks in the ³¹P MAS NMR spectrum in the range of 0 to -50 ppm.



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