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(54) Title: HIGHLY SELECTIVE ALKYLATION PROCESS WITH LOW ZEOLITE CATALYST COMPOSITION

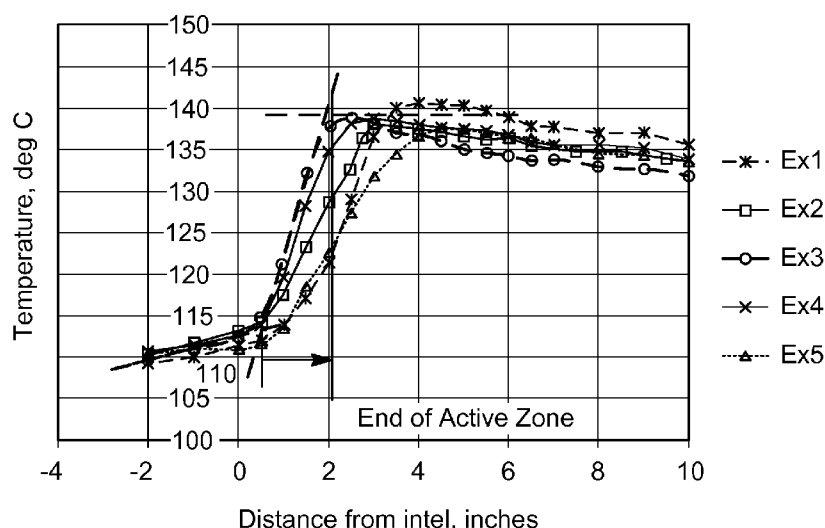


FIG. 1

(57) Abstract: A method for alkylation of a feedstock is described. The method includes contacting the feedstock comprising at least one alkylatable aromatic compound and an alkylating agent with a first alkylating catalyst composition under alkylating conditions, the first alkylating catalyst composition comprising UZM-8 zeolite and a binder, the first alkylating catalyst composition having 20-30 wt% UZM-8 zeolite and the catalyst having a nitrogen to zeolite aluminum molar ratio of between 0.01 to 0.040; wherein a total alkylated selectivity at a temperature and a molar ratio of alkylatable aromatic compound to alkylating agent is greater than 99.0%.