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(54) Title: SELECTING AN IMPROVED CATALYST COMPOSITION AND HYDROCARBON CONVERSION PROCESS
USING SAME

(57) Abstract: The present invention provides a method for selecting an improved catalyst composition comprising a crystalline
molecular sieve material having a structure and properties whereby the catalyst composition has at least one active catalytic site
with a Mono Alkylation Selectivity Factor (MASF) greater than or equal to 0 kcal/mol $\pm$ 0.5 kcal/mol, and optionally further at
least one active catalytic site with an Olefin Oligomerization Suppression Factor (OOSF) greater than or equal to 5 kcal/mol $\pm$ 0.5
kcal/mol. Further, there is provided an improved process for conversion of hydrocarbon feedstock in the presence of said selected
catalyst composition.



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