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In the fluid catalytic cracking process, the fine, powdery catalyst (typically zeolites, which have an average particle size of $\sim 70~\mu m$) takes on the properties of a fluid when it is mixed with the vaporized feed. Fluidized catalyst circulates continuously between the reaction zone and the regeneration zone.

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Fluid catalytic cracking (FCC) is one of the most important conversion processes used in petroleum refineries. It is widely used to convert the high-boiling, high-molecular weight hydrocarbon fractions of petroleum crude oils into more valuable gasoline, olefinic gases, and other products.

Fluid catalytic cracking - Wikipedia

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