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(57) Abstract

A process and catalyst are provided for dehydrogenating a hydrocarbon feedstock and producing an olefinic product. The process comprises contacting the feedstock at dehydrogenation conditions with a dehydrogenation catalyst comprising from about 0.01 weight percent to about 5.0 weight percent of a platinum group metal, from about 0.02 weight percent to about 10.0 weight percent of zinc, and a support component comprising borosilicate and an alkali metal.

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