

Title (en)
CATALYTIC REFORMING PROCESS

Publication
EP 0067014 B1 19850925 (EN)

Application
EP 82302733 A 19820527

Priority
US 27152881 A 19810608

Abstract (en)
[origin: EP0067014A1] A process wherein, in a series of reforming zones, or onstream reactors (A, B, C, D), each of which contains a bed, or beds of catalyst, the catalyst in the leading reforming zones is constituted of supported platinum and a relatively low concentration of rhenium, the catalyst in the last reforming zone, or reactor of the series, is constituted of platinum and a relatively high concentration of rhenium, and a swing reactor (5), also containing a supported platinum and rhenium catalyst, is manifolded so that it can be substituted for any one of the onstream reactors (A, B, C, D) of the unit. The upper portion of the swing reactor (5) contains a catalyst constituted of platinum and a relatively low concentration of rhenium, and the lower portion of the reactor contains a catalyst constituted of platinum and a relatively high concentration of rhenium. The amount of rhenium relative to the platinum on the catalyst in the last reactor and lower portion of the swing reactor is present in an atomic ratio of rhenium:platinum of at least 1.5:1; preferably at least 2:1, and more preferably ranges from about 2:1 to about 3:1. The amount of rhenium relative to the platinum on the catalyst in the lead reactors and upper portion of the swing reactor (5) is present in an atomic ratio of rhenium:platinum on no more than about 1:1. The beds of catalyst in the several reactors (A, B, C, D) are serially contacted with a hydrocarbon or naphta feed, and hydrogen, at reforming conditions the feed flowing from one reactor of the series to the next, and serially through the upper and lower beds of the swing reactor (5), to produce a hydrocarbon or naphta product of improved octane, and the product is withdrawn.

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