

Abstract**Steam cracking process**

The present disclosure provides a steam cracking process, comprising heating a liquid
5 feed stock in a convection section of a cracking furnace and subsequently conveying
the material to a radiant section of the cracking furnace for cracking reaction therein,
wherein a monoolefin-containing stream is conveyed to the cracking furnace for
cracking reaction through at least one of modes A to C. The monoolefin-containing
stream is a hydrocarbon stream containing at least one selecting from a group
10 consisting of ethylene, propylene, butene, pentene and hexene, the sum content of
ethylene, propylene, butene, pentene and hexane accounting for more than 10% by
weight of the hydrocarbon stream. The first mixture is a mixture comprising the
monoolefin-containing stream and at least one of steam and hydrogen. The steam
cracking process of the present disclosure can relieve formation of coke in the
15 convection section of the cracking furnace when olefins are served as part of feed
stock, so that the cracking furnace can work stably in a long term.

(Fig. 1)