

Honey comb type Catalysts for Propane dehydrogenation

정재원, 고희림*, 강민규, 양승호

환경대학교

(hlkoh@hknu.ac.kr*)

Existing Propylene production process is Naphtha Cracking Center (NCC) and Fluid Catalytic Cracker (FCC). However, recently NCC and FCC can not supply the demand for polypropylene. So propane dehydrogenation process is attracting attention. The platinum catalyst used in the dehydrogenation of propane is well known. Catalyst of lowering the reaction temperature and pressure, energy can be reduced.

In this experiment, in order to lower the reaction temperature and pressure, was used for a honeycomb platinum catalyst. Use of a platinum catalyst to form the honeycomb, the pressure receiving surface area is reduced. Because to lower the temperature and pressure, the energy saving can be performed.