

Abstract

The present application discloses a molecular sieve-based catalyst modification apparatus. The apparatus comprises a feed unit 1, a modification unit 2 and a cooling unit 3 connected in sequence; the feed unit comprises a catalyst feed unit 11 and a modifier feed unit 12, a catalyst and a modifier are introduced into the modification unit 2 respectively by the catalyst feed unit and the modifier feed unit and are discharged from the modification unit after sufficient reaction in modification unit, and then enter the cooling unit 3 for cooling. The present application further discloses a use method for the molecular sieve-based catalyst modification apparatus. The use method comprises: introducing a catalyst and a modifier into the modification unit 2 respectively through the feed unit 1, wherein the catalyst is modified by the modifier in the modification unit 2, and then discharged to the cooling unit 3 to cool until the temperature is lower than 50 °C, and then the cooled modified catalyst is transferred to any storage device.