

ABSTRACT

A method for producing an olefin homopolymer or an olefin copolymer from an olefin or an olefin and at least one comonomer copolymerizable therewith by continuous slurry polymerization or continuous gaseous phase polymerization in the presence of a metallocene catalyst, the method comprising transferring the catalyst to a polymerizer and introducing the catalyst into the polymerizer while continuously feeding the olefin or the olefin and the comonomer into the polymerizer, to thereby effect a homopolymerization of the olefin or a copolymerization of the olefin and the comonomer, wherein, said catalyst is subjected to hydrogen gas-treatment in which said catalyst is contacted with hydrogen gas. The method of the present invention is advantageous in that continuous production of the olefin homopolymer or an olefin copolymer can be stably performed without the disadvantageous occurrence of indefinite forms of polymer, so that a polymer withdrawal pipe can be prevented from being clogged with such indefinite forms of polymer, thus enabling continuous production of an olefin homopolymer or an olefin copolymer on a commercial scale.



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