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(54) Title: METHOD FOR PRODUCING SOLID CATALYST COMPONENT FOR POLYMERIZATION OF OLEFIN, SOLID CATALYST COMPONENT FOR POLYMERIZATION OF OLEFIN, CATALYST FOR POLYMERIZATION OF OLEFIN, METHOD FOR PRODUCING CATALYST FOR POLYMERIZATION OF OLEFIN AND METHOD FOR PRODUCING POLYMER OF OLEFIN

(57) Abstract: An object of the present invention is to provide a solid catalyst component for polymerization of an olefin that has a polymerization activity equivalent to or higher than that of the case using a solid catalyst component in which a phthalic acid ester compound or diether compound is used as an internal electron-donating compound, and that can produce an olefin polymer with an excellent bulk density and a low content of olefin oligomers. The present invention provides a solid catalyst component for polymerization of an olefin, obtained by sequentially performing the following steps: (i) a first step of bringing compounds selected from particular phthalic acid ester compounds (A), a magnesium compound and a halogen-containing titanium compound into contact; (ii) a second step of further bringing the first contact product obtained in the above step (i) and compounds selected from particular diether compounds (B) into contact, and then washing the obtained second contact product; and (iii) a third step of obtaining a contact product between the washed second contact product and a halogen-containing titanium compound, then washing the obtained contact product, and further bringing it into contact with particular phthalic acid ester compounds (A) and a halogen-containing titanium compound, thereby obtaining a third contact product.



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