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ABSTRACT

Provided are an aluminium-oxy compound obtained through reaction of an organoaluminium compound with water, which is soluble in hydrocarbon solvents and in which the amount of the organoaluminium compound remaining is at most 10 % by weight; a carrier comprising the aluminium-oxy compound and an inorganic compound; and a catalyst component for olefin polymerization comprising the carrier and a transition metal compound. The catalyst component for olefin polymer production comprises the aluminium-oxy compound and gives polyolefins with good polymer morphology.