

5618770**PROCESS FOR THE PRODUCTION OF POWDER CATALYSTS**

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Magnesium chloride, titanium chloride and at least an electron donor are introduced in a plasma torch. These chlorides being in solution or in suspension in a liquid that can be an electron donor. A very fine granulometry powder is collected after cooling. The powder is very fine, it has a controlled morphology and it can be used as catalyst for alpha-olefins polymerization.

5618771**COMPONENTS AND CATALYSTS FOR THE POLYMERIZATION OF OLEFINS**

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Disclosed are catalysts for the polymerization of alpha-olefins which comprise the reaction product of: (a) an Al alkyl compound; (b) a silicon compound containing at least a Si-OR or Si-OCOR or Si-NR₂ bond, R being a hydrocarbyl radical; (c) a solid comprising, as essential support, a Mg dihalide in active form and, supported thereon, a Ti halide or a halo-Ti-alcoholate and a particular, selected type of electron-donor compound.

5618886**OLEFIN POLYMERIZATION CATALYST AND PROCESS FOR PREPARING POLYPROPYLENE AND PROPYLENE BLOCK COPOLYMERS**

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The present invention provides olefin polymerization catalysts and processes for preparing a polypropylene and a propylene block copolymer using said olefin polymerization catalysts. The olefin polymerization catalyst (1) of the invention is formed from: (I-1) a contact product obtained by contacting: (A) a solid titanium catalyst component, (B) an organometallic compound catalyst component, and (C) a specific organosilicon compound; (II-1) (D) a specific polyether compound; and optionally, (III) an organometallic compound catalyst component. The olefin polymerization catalyst (2) of the invention is formed from: (I-2) a contact product obtained by contacting: (A) a solid titanium catalyst component, (B) an organometallic compound catalyst component, and (D) a specific polyether compound; (11-2) (C) a specific organosilicon compound.

5624878**TITANIUM (II) OR ZIRCONIUM (II) COMPLEXES AND ADDITION POLYMERIZATION CATALYSTS THEREFROM**

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Novel catalytic derivatives of titanium or zirconium